

marantz®

Model SR480/SR580/PM488AV User Guide

A/V Surround Stereo Receiver/Amplifier

ENGLISH

WARRANTY

For warranty information, contact your local Marantz distributor.

RETAIN YOUR PURCHASE RECEIPT

Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes of when corresponding with Marantz.

IMPORTANT

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

FOR U.K. ONLY

This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

FRANÇAIS

GARANTIE

Pour des informations sur la garantie, contacter le distributeur local Marantz.

CONSERVER L'ATTESTATION D'ACHAT

L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieu sûr pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec Marantz.

IMPORTANT

Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de l'achat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

DEUTSCH

GRANTIE

Bei Garantiefragen wenden Sie sich bitte an Ihren Marantz-Händler.

HEBEN SIE IHRE QUITTUNG GUT AUF

Die Quittung dient Ihnen als bleibende Unterlage für Ihre wertvolle Anschaffung. Das Aufbewahren der Quittung ist wichtig, da die darin enthaltenen Angaben für Versicherungszwecke oder bei Korrespondenz mit Marantz angeführt werden müssen.

WICHTIG!

Bei Garantiefragen muß der Kunde eine Kaufunterlage mit Kaufdatum vorlegen. Ihre Quittung oder Rechnung ist als Unterlage ausreichend.

NEDERLANDS

GRANTIE

Voor inlichtingen omtrent garantie dient u zich te wenden tot uw plaatselijke Marantz-handelaar.

UW KWITANTIE, KASSABON E.D. BEWAREN

Uw Kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt. verwijzing, b.v. in verband met verzekering of bij correspondentie met Marantz.

BELANGRIJK

Bij een evt. beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuur is zijn voldoende bewijs.

ITALIANO

CONDIZIONI DI GARANZIA

L'apparecchio è garantito per 365 giorni dalla data di acquisto comprovata da un documento attestante il nominativo del rivenditore e la data di vendita. La garanzia sarà prestata con la sostituzione o riparazione gratuita delle parti difettose.

Non sono coperti da garanzia difetti derivanti da uso improprio, errata installazione, manutenzione effettuata da personale non autorizzato o, comunque, da circostanze che non passano riferirsi a difetti di funzionamento dell'apparecchio.

Sono inoltre esclusi dalla garanzia gli interventi inerenti l'installazione e l'allacciamento agli impianti di alimentazione.

Gli apparecchi verranno riparati presso i nostri Centri di Assistenza. Le spese ed i rischi di trasporto sono a carico del cliente.

La casa costruttrice declina ogni responsabilità per danni diretti o indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione dettagliate nel presente manuale.

Per informazioni sull'abbonamento al servizio Assistenza postgaranzia e per conoscere l'indirizzo dei Centri Assistenza Marantz rivolgetevi al nostro servizio consumatori (telefono 1678-20026 - numero verde).

PORTUGUÊS

GARANTIA

Para informações sobre a garantia, contactar o distribuidor Marantz local.

GUARDAR O RECIBO DE COMPRA

O recibo é o registo permanente da compra que fez. Deve ser guardado num local seguro, para ser apresentado em questões relacionadas com o seguro ou para quando tiver de contactar a Marantz.

IMPORTANTE

Quando procurar assistência técnica ao abrigo da garantia, é da responsabilidade do consumidor estabelecer a prova e data de compra. O recibo é prova adequada.

ESPAÑOL

GARANTÍA

Para información sobre las Condiciones de Garantía, sírvase consultar el Certificado que encontrará en le interior del embalaje del equipo.

CONSERVE EL COMPROBANTE DE LA COMPRA

La factura es el comprobante de la adquisición de un producto valioso. Consérvela en lugar seguro para poder consultarla en caso necesario.

IMPORTANTE

Para disponer de servicios cubiertos por la garantía, el usuario deberá acreditar la fecha y el lugar de adquisición del equipo. La factura o recibo de la compra constituyen un comprobante válido a tal efecto.

SVENSKA

GARANTI

Angående garanti, kontakta din lokala Marantz handlare.

SPAR KVITTOT

Kvittot är din Inköphandling över Inköp av en värdefull vara. Det ska placeras på ett säkert ställe och hänvisas till vid försäkringsfrågor eller vid korrespondens med Marantz.

VIKTIGT

När garantiservice åberopas är det konsumentens ansvar att visa datum för inköp. Ditt kvitto eller din faktura är ett tillfredsställande bevis.

DANSK

GARANTI

Bed din Marantz-forhandler om oplysninger om garantien.

GEM DIN KVITTERING SOM KØBSEVIS

Din kvittering er bevis på et værdifuldt køb. Opbevar den på et sikkert sted, hvor du let kan finde den i forbindelse med eventuelle erstatningskrav eller korrespondance med Marantz.

VIGTIGT

Det er brugerens ansvar at forelægge købsbevis, hvis der er brug for det i garantiforbindelse. Din kvittering eller faktura er gyldige beviser.

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CE MARKING

- CE English**
This unit is in conformity with EMC directive and low-voltage directive.
- CE Français**
Cet appareil est conforme à la directive EMC et à la directive sur les basses tensions.
- CE Deutsch**
Dieses Gerät entspricht den EMC-Richtlinien und den Richtlinien für Niederspannungsgeräte.
- CE Nederlands**
Dit apparaat voldoet aan de EMC-richtlijnen en de richtlijnen voor apparatuur met laag voltage.
- CE Italiano**
Quest'unità è conforme alle direttive EMC ed alla direttiva sulle basse tensioni.
- CE Português**
Esta unidade está em conformidade com as directivas EMC e as directivas de baixa voltagem.
- CE Español**
Esta unidad está de acuerdo con las normas EMC y las relacionadas con baja tensión.
- CE Svenska**
Denna enhet överensstämmer med EMC direktivet och direktivet för lågspänning.
- CE Dansk**
Dette apparat er i overensstemmelse med EMC direktivet og direktivet for lavspænding.

**SI DICHIARA CHE L'APPARECCHIO SINTO-AMPLIFICATORE SR480/SR580/PM488AV
RISPONDE ALLE PRESCRIZIONI DELL'ART. 2 COMMA 1 DEL D.M. 28 AGOSTO 1995 N° 548.**

FATTO A EINDHOVEN, IL 1/1/1996.

**MARANTZ EUROPE B.V.
5600 EINDHOVEN
THE NETHERLANDS**

"Este aparato lleva elementos antiparasitarios necesarios para cumplir con los límites que se establecieron en el Anexo V del Reglamento sobre Perturbaciones Radioeléctricas e Interferencias aprobado en el Real Decreto 138/1989. (B.O.E. de 9 de Febrero 1989)."

FOREWORD

This section must be read carefully before any connection is made to the mains supply.

WARNINGS

- Do not expose the equipment to rain or moisture.
- Do not remove the cover from the equipment.
- Do not insert anything into the equipment through the ventilation holes.
- Do not handle the mains lead with wet hands.

EQUIPMENT MAINS WORKING SETTING

Your Marantz product complies with the household power and safety requirements in your area.

This is a voltage selector on the rear panel of the "Overseas" Version product. Be sure to set the voltage selector to the mains voltage of your area before using the unit.

IMPORTANT

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:

1. Remove fuse cover and fuse.
2. Fix new fuse which should be a BS1362 5A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

NOTE: The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

HOW TO CONNECT A PLUG

The wires in the mains lead are coloured in accordance with the following code:

BLUE—"NEUTRAL" ("N")

BROWN—"LIVE" ("L")

1. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
2. The BROWN wire must be connected to the terminal which is marked with the letter "L" or coloured RED.
3. Do not connect either wires to the earth terminal in the plug which is marked by the letter "E" or by the safety earth symbol T or coloured green or green-and-yellow.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead — not simply over the two wires.

COPYRIGHT

Recording and playback of some material may require permission. For further information refer to the following:

- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963, and 1972
- Any subsequent statutory enactments and orders

INTRODUCTION

Thank you for selecting the Marantz AV Surround Stereo Receiver/Amplifier for your AV system.

This AV Surround Stereo Receiver/Amplifier incorporates a number of features designed to enhance the listening of your favorite music and home theater sources.

Please read these operating instructions carefully. We recommend that you read the entire user guide before you attempt to connect or operate the receiver/amplifier.

After you have reviewed the contents of this manual, we suggest that you make all system connections before you attempt to operate the unit.

Refer to the figures on the pages at the back of this user's guide. The callout numbers on the figures correspond to those found in the text. All references to the connections and controls that are printed in **BOLD** type are as they appear on the unit.

INSTALLATION

Remember the following important points when installing the receiver/Amplifier.

- Do not expose the component to rain or moisture, as this may cause damage to the receiver.
- All receivers produce some heat during operation and this heat must be allowed to disperse freely. Do not close any ventilation openings and insure that there is adequate ventilation space behind, beside and above the receiver.
- Prevent extra heat from reaching the unit. Never put the receiver in the full glare of the sun or near a heat source.

PRECAUTIONS

The following precautions should be taken when operating the equipment.

GENERAL PRECAUTIONS

When installing the equipment ensure that:

- the ventilation holes are not covered.
- air is allowed to circulate freely around the equipment.
- it is placed on a vibration-free surface.
- it will not be exposed to excessive heat, cold, moisture or dust.
- it will not be exposed to direct sunlight.
- it will not be exposed to electrostatic discharges.
- always install the unit horizontally.

In addition, never place heavy objects on the equipment.

If a foreign object or water does enter the equipment, contact your nearest dealer or service center.

Do not pull out the plug by pulling on the mains lead; grasp the plug itself.

It is advisable when leaving the house, or during a thunderstorm, to disconnect the equipment from the AC outlet.

SR580 FEATURES

- Equipped with 7 audio inputs and 5 video inputs.
- Front 70 W x 2 (8 ohms, stereo mode), 50 W each Left, Center and Right (8 ohms, surround mode), 50 W x 2 (8 ohms, surround mode).
- Surround decoder with digital delay control function.
- Dolby Pro Logic Surround with auto input balance control function.
- Dolby DIGITAL (AC-3).
- 30-station random preset memory.
- Up to 90-minute sleep timer.

SR480/PM488AV FEATURES

- Equipped with 7 audio inputs and 5 video inputs.
- Front 70 W x 2 (8 ohms, stereo mode), 50 W each Left, Center and Right (8 ohms, surround mode), 50 W x 2 (8 ohms, surround mode).
- Surround decoder with digital delay control function.
- Dolby Pro Logic Surround with auto input balance control function.
- 30-station random preset memory (SR480).
- Up to 90-minute sleep timer.
- 6ch Direct in Function

To ensure proper ventilation for the amplifier, do not mount it in a rack or locate it inside a bookshelf. Note the following precautions.

- Do not insert objects into the space underneath the amplifier.
- Do not block the vents on the top of the amplifier.
- Keep the area above the amplifier unobstructed for about one meter.
- Allow approximately 20 centimeters of space on all sides of the amplifier.


USING THE SURROUND MODES

Four surround modes are provided for reproducing sound with a live atmosphere. Select the surround mode appropriate to the music/video source and your listening room conditions.

DOLBY DIGITAL (AC-3) SURROUND (SR580 only)

Dolby Digital (also known as AC-3) is new technology that was originally developed to provide six separate channels of high quality discrete multi-channel sound for motion picture theaters. The Marantz AV receiver brings that same high quality sound into your home when used a compatible laser disc player, as well as from future Dolby Digital sources such as DSS, Digital Video Disc (DVD) and High Definition Television (HDTV). The wide dynamic range of Dolby Digital enables the Marantz AV receiver to reproduce soundtracks with their full fidelity and a realism that is not possible with conventional matrix surround systems.

DOLBY PRO LOGIC SURROUND

This is the setting you will probably use for watching most Dolby Surround ( DOLBY SURROUND) encoded videos. This provides you with left and right stereo for off-screen imaging, a center channel for most on-screen dialogue, and a surround channel for ambiance and special effects.

There are three center channel modes available in Dolby Surround.

"PHANTOM" should be used if you have elected not to use a center channel. This mode of operation directs the center channel information equally to the left and right channel speakers, creating a "phantom" center image of the dialogue. This is the way the first generation Dolby Surround worked.

"NORMAL" should be used if you are using a small center channel speaker (or speakers) with limited bass response. In NORMAL mode, the lower frequencies (below 100 Hz) are removed from the center channel and redirected equally to the left and right speakers. Since bass frequencies are omnidirectional, this will not affect the imaging of the center channel. The dialogue will still appear to come from the video screen.

"WIDE" should be used if you are using a full-range center channel speaker that is just as capable of good bass response as your main left and right speakers. In this mode, all the center channel information remains in the center channel output.

There are 4 delay times available in Dolby Surround : 15 to 30 mS (milliseconds)

There are 4 delay times available in Dolby Digital (AC-3) : 0 to 15 mS (milliseconds)

For most home theater setups, the 20mS setting works best. This setting should be used if your front speakers are the about the same distance away from the listening position as the surround speakers are located. Choose the 30mS setting only if you are sitting much closer to the surround speakers than to the front speakers. Choose the 15mS setting if you are further away from the surround speakers than you are to the front speakers.

DOLBY 3 STEREO

This mode of operation is available to provide a center channel image for stereo program sources that are not encoded with surround sound. This is use for watching older movies or TV shows that are recorded in stereo, particularly if your speakers are located relatively far apart from each other. In this way, dialogue will be correctly located at the video screen, while the stereo information will provide off-screen imaging. Only NORMAL and WIDE center channel modes are available in 3 STEREO Mode. Delay time is 0mS because the SURROUND channel is off.

CAUTION REGARDING PLACEMENT

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) equal to, or greater than, shown below.
Left and right panels: 5cm, Rear panel: 5cm, Top panel: 20cm

DOLBY PRO-LOGIC SURROUND

[Speaker Selection and Placement]

Front Speakers: These should be full-range, high quality speakers; the best speakers in your system. They should be located far enough from each side of your TV monitor to provide a well defined stereo image. The TV monitor should be located midway between the left and right front speakers. You may use smaller speakers if you are using a sub-woofer with your system.

Surround Speakers: The rear speakers in your surround sound system provide ambient sound for an open, "concert hall" effect when listening to music. They also spread the sound and provide special effects on video soundtracks when used in the Dolby Surround mode.

The demands made on your surround speakers are far less than on your main speakers. Therefore, these speakers do not need to be as large (and as expensive) as your main speakers. Deep bass response is not important at all. Good 2-way bookshelf speakers will handle the job easily, and most full-range mini-monitors are also quite suitable for this application. Depending on how extensive you want to get with your installation, there are also several in-wall and wall-mount speakers that are suitable for use as surround sound speakers. Dipole-type surround speakers can provide even wider dispersion, with a diffused sound field which provides enveloping surround sound effects.

The surround channel speakers should be mounted so that their sound is dispersed throughout the viewing area.

Ideally, you should install the surround speakers along the side walls of the listening room, directly above and to the left and right to the listeners or slightly behind them. Their height should be about 1 meter higher than the level of the listener's ears. (Figure 1-A). This will provide the best surround sound effect and should be used with both conventional direct-radiating as well as dipole speaker types. If this is not possible or practical, then try mounting the surround speakers on the back wall of the room, and aim them so that they are not firing directly sounds do not reach directly toward the listener's ears. (Figure 1-B) Another approach is to mount the speakers facing upward so that their sound is dispersed by the ceiling and rear wall (Figure 1-C).

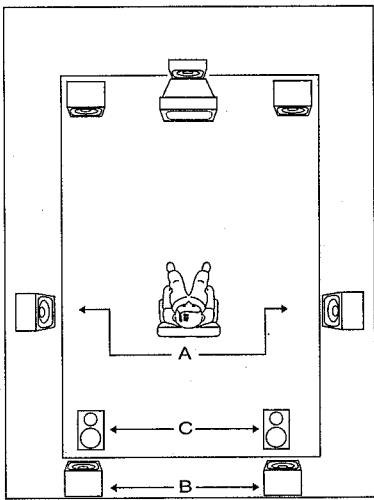


Figure 1.

Figure 1. Surround Speaker Options

- Option A: Placed or mounted along side walls
- Option B: Placed or mounted behind listeners
- Option C: Placed or mounted facing upward

Center Speaker(s) Again, the center speaker(s) can be of a smaller size and less expensive than your main speakers. However, the upper midrange and treble response of the center speaker(s) should resemble that of the main speakers. If there are significant differences in frequency response in this range, the stereo image may shift toward the speaker with the higher output.

You can use one or two speakers for the center channel. If you choose to use one speaker (Figure 2A), it should be located immediately above or below your video screen. Using one center speaker provides the best results for most home theater system setups. If you choose to use two speakers (Figure 2B), the same signal will appear in both speakers since the CENTER channel output is monophonic. They should be located on each side of your TV monitor, as close as possible so that the dialogue will seem to come from the center of the TV screen. In either case, the center speaker(s) should be placed as close to your video screen as possible, so it must be magnetically shielded. If it is not shielded, it could cause distortion of the TV picture. Special video-compatible monitor speakers are available for this application.

Use the center speaker as shown in Figure 2A or 2B.

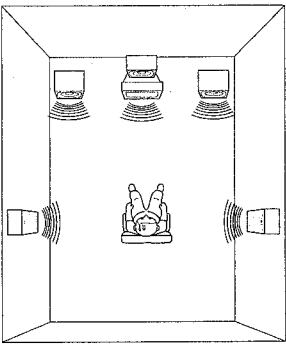


Figure 2A.

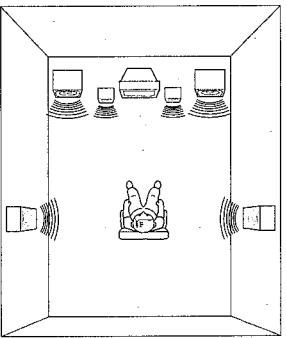


Figure 2B.

Figure 2. Center Speaker Options

- Option A: Using one speaker
- Option B: Using two speakers

SOUND FIELD EFFECT

The Receiver/Amplifier incorporates a sophisticated Digital Signal Processor that allows you to create the optimum sound quality and sound atmosphere in your room with both music and video sources.

SOUND FIELD MODE CONTROLS

- Description of each mode is as follows.

SF MODES	DESCRIPTIONS
THEATER	This setting creates the same intimate feeling as you get in a theater when watching plays, musicals and solo acts.
STADIUM	The reverberation and open air atmosphere of a rock concert or sporting event is created by this setting, when playing stereo (but not mono) source material. (SR580 only)
HALL	This mode provides the ambience of a concert hall for live, un-amplified classical music sources such as orchestral, chamber music or solo instrumentals.
CHURCH	This mode provides the reverberant ambience of a church, which can enhance choral works, as well as adding a rich ambient effect to "dry" studio recordings. (SR580 only)
SIMULATED	This setting gives you spatial surround sound when playing manaural souce material. (SR480/PM488AV only)

NOTES

- If using a VCR, to take full advantage of the SF modes, especially Dolby Pro Logic, your VCR must be a Hi-Fi Stereo VCR. A mono VCR cannot provide the stereo soundtracks necessary for surround decoding.
- The surround modes will not operate correctly if the signal passes through a graphic equalizer. If you use a graphic equalizer in your system, set it for flat response or its "through" or "off" settings.

LOCATION AND FUNCTION OF PARTS AND CONTROLS

Rear panel connections

(See pages 113, 114, 115.)

All connections to the rear panel should be made with entire power off to the system. To avoid miss-connection, it is advisable to connect one cable at a time between the different components. This is the safest way to avoid cross-connecting channels or mix-up signal inputs with outputs.

- Ⓐ **FM antenna terminal (75 ohm or 300 ohm) (with out PM488AV)**
For connecting an external FM antenna with a coaxial cable, or for connecting a cable network.

AM antenna and ground terminals

For connecting the supplied AM loop antenna. Use the terminals marked "AM" and "GND".

The supplied AM loop antenna will provide good AM reception in most areas. Position the loop antenna to the best reception.

TUNER input jacks. (PM488AV only)

Connect to a Tuner's output jack.

- Ⓑ **VCR1 video input/output jacks**
Connect the IN jack to your main VCR's video output jack and connect the OUT jack to the VCR's video input jack.

- Ⓒ **LD video input jack**
Connect to a laser disc player's video output jack.

- Ⓓ **MONITOR OUT jack**
Connect to a TV's video input jack.

- Ⓔ **REMOTE jacks**
Connect to other Marantz components equipped with REMOTE jacks. (See page 8.)

Marantz components utilize the Philips RC-5 remote control system language.

- Ⓕ **TV/AUX INPUT jack**
Connect to the TV's audio out jack.

- Ⓖ **TAPE 1 input/output jacks**
Connect the output (PLAY) jack of the cassette deck to the IN jack, and connect the input (REC) jack to the OUT jack.

- Ⓗ **TAPE 2 input/output jacks**
Connect the output (PLAY) jack of the cassette deck to the IN jack, and connect the input (REC) jack to the OUT jack.

- Ⓛ **CD input jacks**
Connect to the audio output jacks of a CD player.

- Ⓜ **VCR1 audio input/output jacks**
Connect the IN jacks to a VCR's audio output jacks and the OUT jacks to the VCR's audio input jacks.

- Ⓚ **LD audio input jacks**
Connect to the audio output jacks of a laser disc player.

- Ⓛ **PRE OUT (FRONT, CENTER AND REAR JACKS)**
These jacks supply pre-amp output signals, and are used for connection to external power amplifiers (if necessary).

- Ⓜ **SURROUND speaker output terminals**
Connect to the surround (rear) speakers.

- Ⓝ **CENTER speaker output terminals**
Connect to the center speaker.

- Ⓞ **FRONT speaker output terminals**
Connect to the front speakers.

- Ⓟ **AC OUTLET**
Connect the AC power cables of a CD player, cassette deck, etc., of your system. The power supply from switched outlet is interlocked with the POWER switch of the unit. The maximum total power consumption of the connected components must not exceed the following limit:
100 W MAX.

- Ⓠ **AC power cord**
Plug into AC 230V household outlet.

- Ⓡ **SR580 only**
RF (AC-3) input terminal
Connect the RF output jack of the Lesser Disc Player to the IN jack.

COAX. input terminal

Connect the COAX. output jack of the (digital equipment) Player the IN jack.

OPT. input terminal

Connect the OPT. output jack of the (digital equipment) Player to the IN jack.

IMPORTANT NOTE:

These input jacks are for AC-3 / PCM digital signals only.

Do not connect standard audio outputs to these AC-3 / PCM digital input jacks.

- Ⓢ **6ch direct in (SR480, PM488AV only)**
Connect the output jack of the surround processor (e.g. Marantz DP870 etc.) to the IN jack.

Note on loudspeaker impedance:

The power ratings specified for this Marantz receiver are obtained using fixed value test load impedances. However, the actual impedance of a loudspeaker system will vary with frequency, deviating from the nominal rating. This Marantz amplifier will drive any modern loudspeaker system with a rated impedance of 4 ohms or higher. A few newer loudspeakers feature impedances of less than 4 ohms. The high current output capability of this Marantz receiver can provide the additional power necessary to drive such low impedance speakers. However, during extended passages of high volume, the protection circuitry may temporarily interrupt operation. If this occurs, simply reduce the volume accordingly. The protection circuitry is specially designed so that it cannot affect the sound quality during normal operation.

Front panel features

(See page 113, 114, 115.)

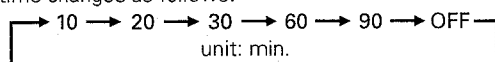
① POWER switch

When this switch is pressed once, the power turns ON and display appear on the display panel. When pressed again, the power turns OFF. **After initialization or resetting, press this switch to enter the stand-by mode.**

To turn the power ON, press any of the function buttons of the main unit or the POWER button of the remote control unit.

② SLEEP TIMER button

Press this button to set the receiver to automatically turn off after 10, 20, 30, 60 or 90 minutes. Each time this button is pressed, the sleep time changes as follows.



③ SPEAKERS button

Use this button to select speaker system ON or OFF.

Please do not off when other main amplifier is used for pre-out. (SR580 only)

④ PHONES socket for stereo headphones

This jack is compatible with a wide range of conventional dynamic headphone types.

NOTE:

Change the surround mode to STEREO when using headphones.

⑤ Tuning/preset UP and DOWN buttons (RECEIVER only)

During AM or FM reception, you can scan to other frequencies or preset number by pressing these buttons.

⑥ FM MODE button (RECEIVER only)

Press this button to select stereo or mono mode when listening to FM broadcasts.

⑦ MEMORY button (RECEIVER only)

Press this button to memorize the desired station frequency.

⑧ BASS CONTROL

Adjust the low frequency level with this control according to your taste and room acoustics.

⑨ TREBLE CONTROL

Adjust the high frequency level with this control according to your taste and room acoustics.

⑩ BALANCE CONTROL

Adjust the sound volume between left and right front speakers with this control.

⑪ AUX. audio/video input jacks (FRONT)

Connect the audio/video output jacks of the second VCR (e.g. Camcorder) to these IN jacks.

⑫ Input selectors

These buttons select the audio or audio/video source. The selected source name will be displayed on Fluorescent display.

Pressing one of these buttons in the standby mode allows to turn power ON with the input function corresponding to the pressed button.

⑬ INDICATOR DISPLAY

STANDBY indicator

This indicator lights up when in the standby mode.

AUX. FRONT indicator

This indicator lights up when selected FRONT AUX.,

Audio MUTE indicator

This indicator lights up (blinking) when in the audio mute mode.

DISPLAY OFF indicator (SR480, PM488AV only)

This indicator lights up when in the display-off mode.

SIMULATED indicator (SR480, PM488AV only)

This indicator lights up when in the Simulate (surround) mode

6CH DIRECT indicator (SR480, PM488AV only)

DIGITAL SELECT indicator (SR580 only)

This indicator lights up when in the digital input mode.

MID NIGHT Indicator (SR580 only)

This indicator lights up when pushed in the AC-3 mode.

SUB WOOFER Indicator (SR580 only)

This indicator lights up when SUB WOOFER on mode.

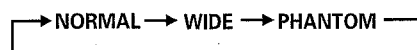
⑭ REMOTE SENSOR

This receives the signals from the remote control unit.

⑮ CENTER MODE button

Press this button to select the desired center mode when in the DOLBY PRO LOGIC or DOLBY 3 STEREO mode. Each time this button is pressed, the center mode changes as follows.

• DOLBY PRO LOGIC mode:



• DOLBY 3 STEREO mode:



The display panel shows each mode.

⑯ TEST TONE button

Use this button to adjust the test tone volume level from each speaker. When operating test tone, TEST-FL, C, FR or R is displayed and the test tone is generated from each channel in turn for 2 seconds.

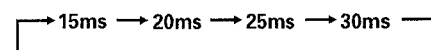
- When in DOLBY 3 STEREO mode, the test tone is not generated from the surround channel. (rear channel)

⑰ DELAY TIME UP/DOWN buttons

[DELAY TIME]

When in the DOLBY PRO LOGIC mode, adjust the delay time with these buttons according to room size and acoustics.

- Each time these buttons are pressed, the delay time changes as follows.



- 20 ms is standard delay time.

[SR580 only (AC-3mode)]

- Each time these buttons are pressed, the delay time changes as follows from 0 (zero) to 15mS cyclic changed

⑱ CENTER LEVEL UP/DOWN buttons

Use these buttons to adjust the sound level from the center speaker relative to that from the front speakers only when in the normal or wide mode.

⑲ REAR LEVEL UP/DOWN buttons

When these buttons to adjust the sound level from the rear speakers relative to that from the front speakers.

⑳ MASTER VOLUME CONTROL

Adjust the overall sound volume from the front, center and rear speakers with this control.

㉑ SURROUND MODE button

Surround mode changes as follows whenever as follows whenever you pushes this button.

SR580: AC-3 PROLOGIC 3 STEREO THEATER HALL STADIUM CHURCH AC-3

SR480/PM488AV: PROLOGIC 3 STEREO THEATER STADIUM HALL SIMULATE PROLOGIC

NOTE(SR580 only) :

AC-3 cannot be selected when the function is other that LD, DVD and AUX.

㉒ STEREO (SURROUND OFF) button

When switching from surround mode to stereo mode, This button pushes.

㉓ DIGITAL SELECT. button (SR580 only)

This button to swich the digital signal.

㉔ DISPLAY OFF button (SR480/PM488AV only)

You pushes this button to turn off display.

㉕ MID NIGHT button (SR580 only)

The source with large dynamic range is compressed.

DISPLAY (See page 113, 114, 115.)

a FREQUENCY/CHARACTER DISPLAY

This displays the selected station frequency or the corresponding words when selecting a program source or a sound field mode or operating test tone.

b PRESET NUMBER, SLEEP TIME, DELAY TIME, EFFECT and REAR or CENTER LEVEL DISPLAY

This displays the selected preset number, the sleep time, the delay time, the effect, the center and the rear level when operating the surround mode.

c AUTO INDICATOR

This indicator lights up when operating auto tuning. When in manual tuning mode, it goes off.

d STEREO INDICATOR

This indicator lights up when in FM stereo mode.

e TUNED INDICATOR

This indicator lights up when a broadcast is received properly.

f MEMORY INDICATOR

When the MEMORY button is pressed, this indicator lights up for about 5 seconds.

g DOLBY surround and other surround INDICATOR

This indicator lights up when the DOLBY surround or other surround mode is selected.

h RDS INDICATOR

This indicator lights up when RDS broadcast is Received.

RDS FUNCTIONS (Europe version only)

DISPLAY key

Each press of this key changes the display contents as shown below.
 FREQUENCY → STATION NAME → PROGRAM NAME → TIME(CLOCK) → TEXT → FREQUENCY
 However, the above is not displayed when there is no RDS data with the station being received.

SEARCH key

This key is used to search a station broadcasting RDS, TP or PTY data by scanning.

Press the DISPLAY key then press the SEARCH key.

Now "RDS" is displayed. Each further press of the SEARCH key changes the display as shown below.

RDS → TP → PTY → FREQUENCY

When the desired item is displayed, press the TUNING UP or DOWN key to start scanning.

PTY SELECT key

When "PTY" is selected with the SEARCH key, select the desired programme type by pressing the PTY SELECT key.

When the desired programme type is displayed, press the TUNING UP or DOWN key to start scanning.

One of the following programme types can be selected:

POP	Popular music
ROCK	Rock music
MOR	Middle of the road music, "easy-listening"
LIGHT	Light classic music
CLASSIC	Serious classical music
NEWS	News service
AFFAIR	Politics and current events
INFO	Spatial informative reports
SPORT	Sports
EDUCATE	Learning and continuation of education
DRAMA	Radio plays, literature
CULTURE	Learning and continuation of education
SCIENCE	Programmers about science and technology
OTHER	Other music
WEATHER	Weather reports, forecasts
FINANCE	Financial reports, commerce, trading
CHILDREN	Children's programmes
SOCIAL A	Social affairs
RELIGION	Religious programmes
PHONE IN	Programmes in which the public expresses its view by phone
TRAVEL	Travel reports
HOBBIES	Programmes concerning recreational activities

JAZZ
 COUNTRY
 NATION M
 OLDIES
 FOLK M
 DOCUMENT

Jazz music
 Country music
 National music
 Music from the so-called 'golden age' of popular music
 Folk music
 Documentaries

Remote control bus connections

This unit is equipped with a remote control function.

By connecting this unit's remote control jacks to a Marantz CD player or tape deck equipped with remote control (D-BUS) jacks, it allows system remote control operation.

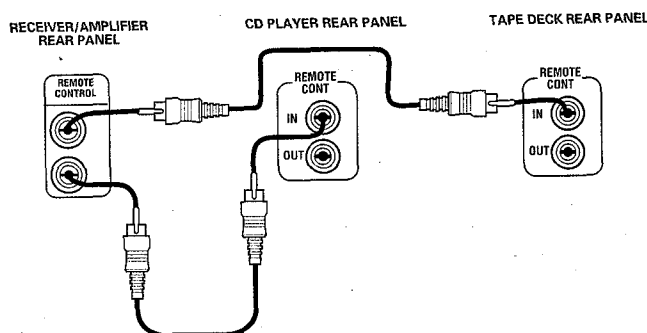
Connect the REMOTE CONT. OUT jack of unit to REMOTE CONT. IN of other Marantz equipment, i.e. CD player or Cassette deck, by using an RCA pin cable.

The connection sequence between components is not important.

Note:

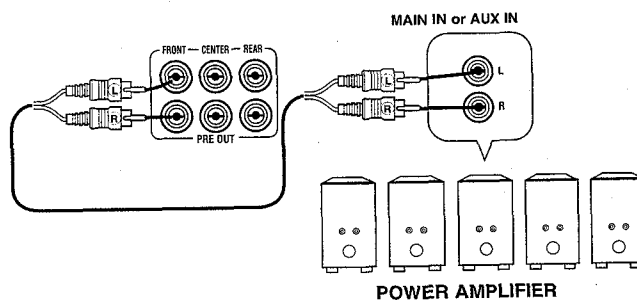
If a component equipped with remote control (D-BUS) jacks has an INT/EXT switch on the rear panel, set the switch to EXT when using the system control function.

(Connection example)



PRE OUT jacks

The RECEIVER/AMPLIFIER is equipped with PRE OUT jacks. Use these jacks to connect to external power amplifiers.



BASIC OPERATION

Listening to the tuner (RECEIVER only)

1. Press the POWER switch ① to turn on the power.
2. Press the AM or FM button ⑫ to select the desired band.
3. Press the TUNING UP and DOWN buttons ⑤ to tune in the desired station. Pressing once for less than a half second changes the frequency by one step. Pressing longer sequentially scans frequencies in the indicated direction. Releasing the button in this state activates the auto tuning function, which automatically scans the frequencies until it reaches a station, at which point the TUNED and auto tuning stops.
4. Adjust the sound volume with the VOLUME control ⑳. If necessary, adjust the tone controls (BASS/TREBLE) ⑧ and ⑨.

PRESETTING STATIONS (RECEIVER only)

Up to 30 stations can be preset at random, regardless of the reception band.

1. Tune in the station to be memorized using the auto or manual tuning.
2. Press the MEMORY button ⑦, then the "MEMORY" indicator lights up for 5 seconds.
 - When the MEMORY indicator goes off, press again to memorize.
3. Select the preset number with TUNING UP / DOWN buttons to memorize while the MEMORY indicator flashes.
4. Press the MEMORY button again.
5. Repeat steps 1 to 3 to memorize other stations.
 - When memorizing a new station, the provisory memorized station on the same preset number is cleared.

■ PRESET TUNING

- To listen to a radio station stored in the station memory.

■ LISTENING TO FM STEREO BROADCASTS

- During FM broadcasts, press the FM MODE button ⑥ to select the Auto/stereo mode.
- Each time this button is pressed, the mode changes as follows.
Stereo mode: STEREO indicator lights up.
Mono mode: STEREO indicator goes off.
- When listening to very weak FM stereo stations, you may experience higher than normal background hiss. Switch to monaural sound to eliminate the hiss.

■ CHANGE OF 9K/10K SCAN STEP

When you keeps pushing FM/AM button at about 3 seconds at AM mode, scan step of 9K/10K Hz is switched.

PLAYBACK OPERATION

Normal playback

1. Press the POWER switch ① to turn on the power.
2. Press the desired input selector ⑫ according to the table shown below.
3. Start playing the desired source.
Adjust the volume using the VOLUME control ⑳.
If necessary, adjust the tone using the BASS and TREBLE controls ⑧ and ⑨.

Source component	Input selector
Compact Disc Player	CD
FM or AM broadcasting	FM / AM or TUNER
TV or AUX	TV / AUX
Laser Disc Player	LD
Video Cassette Recorder 1	VCR-1
Digital Video Disc Player	VCR-2 / DVD
Cassette deck - 1	TAPE 1
Cassette deck - 2	TAPE 2

ADJUSTMENTS

Adjusting the surround level

To adjust the surround level, locate yourself in your usual listening position and operate the remote control unit ⑭. (Please see next page.)

Use this procedure to adjust the volume of each of the front, center, and rear speakers when watching a movie or other video source in DOLBY surround mode.

1. Press the DOLBY PRO LOGIC button.
2. Press the CENTER MODE button ⑮ to select the center mode corresponding to your speaker system configuration.
In this example, the center mode is set to NORMAL.
3. Press the TEST TONE button ⑯. A test signal tone is heard from the left, center, right, and surround speakers in sequence.
The balance of the surround channel (rear) can be controlled using the surround up/down keys when Surr-R or L is shown on the display (in the AC-3 mode of the SR-580).
4. Using the remote control, adjust the volume of the test tone for center and surround until the volume appears to be set at the same level for all speakers.
5. When volume adjustment is completed, press the TEST TONE button ⑯ again so that the test signal tone stops.

Listening to a different audio source while watching a video source

1. Select one of the following video sources ⑫.
VCR 1, VCR 2, LD, AUX
2. Next, select one of the following audio sources ⑫.
CD, FM or AM, TAPE 1, TAPE 2,
Adjust the volume using the VOLUME control ⑳.
If necessary, adjust the tone using the BASS and TREBLE controls ⑧ and ⑨.

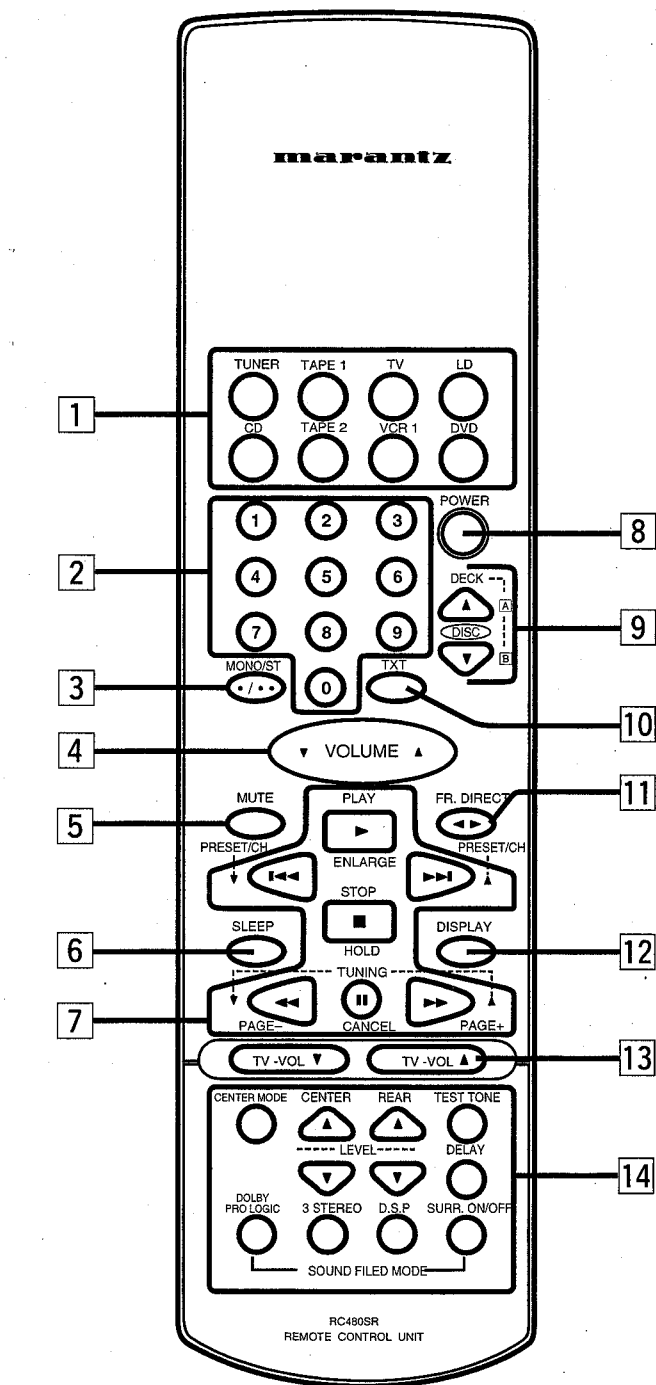
■ RECORDING WITH A CASSETTE DECK

■ Recording with TAPE 1, TAPE 2

1. Select the program source to be recorded with the INPUT FUNCTION SELECTOR buttons ⑫.
2. Start recording on the cassette deck connected to the TAPE 1 jacks.
3. Play back the desired program source.
 - The volume, balance, bass and treble settings have no effect on the recording or dubbing.

REMOTE CONTROL OPERATION

(Remote control is applicable to components that use the RC-5 remote control cord language.)
(For SR480/PM488AV)



- 1 SOURCE SELECTION Button**
Pressing one of these button selects the program source.
- 2 Numeric Buttons 0 to 9**
In TUNER operation, these buttons are used to recall the Preset Number.
In CD operation, these buttons are used to recall a track number.
In TV operation, these buttons are used to select the TV channel.
- 3 MONO/ST Button (FM MONO/STEREO)**
Functions as the same as the MODE button in the receiver.
- 4 VOLUME ▲ / ▼ Button**
These buttons vary the listening volume. Press the ▲ button to increase it and the ▼ button to decrease it.
- 5 MUTE Button**
Pressing this button immediately decreases the sound level the (VOLUME control LED will flicker). To restore the sound, press this button again.

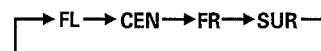
- 6 SLEEP Button**
Press to set the sleep timer.
- 7 Control Button**
PLAY (▶), STOP (■), PAUSE (⏸), FF (▶▶), REW (◀◀).
These buttons are used when operating the CD player, LD player, TAPE deck, VCR, etc.
The functions of these buttons are dependent on the function button selected.
- 8 POWER Button**
Press this button to turn ON/OFF (standby) the receiver.
- 9 DECK A/B Button**
When this button is pressed, DECK A or B can be operated.
- 10 TXT Button**
This button is used to view the teletext broadcast with TV stations.
For details, read the owner's manual of your TV set.
- 11 FR. DIRECT Button**
When this button is pressed while the tuner source is being selected, the desired station can be selected by directly composing its frequency using numeric buttons 0 to 9.
- 12 DISPLAY Button**
The function of this button is dependent on the function button selected, as described below.
When CD is selected:
Time (used to switch the displayed time between elapsed time and remaining time).
When DCC is selected:
Text (with DCC, used to display character information).
When TUNER is selected:
Text (invalid).
When AUX/TV is selected:
OSD (used to control the on-screen display of TV).
When a VCR is selected:
Slow (used for slow playback of videotape).
* For details, refer to the instruction manuals of the components used in your system.
- 13 TV-VOL Button**
Adjust the TVs' Volume.
- 14 Surround selector**
Surround control button
This button selects the surround modes.
D.S.P. button

→ PRO LOGIC → 3 Stereo → Theater
 SIMULATE ← HALL

CENTER mode select button
This button can be used only when the surround mode is DOLBY, and is used to select the center mode. (NORMAL, WIDE, PANTOM)

LEVEL UP ▲ / DOWN ▼ buttons
They can be used only when the surround mode can are used to increase or decrease the center and (or) rear channel volume.

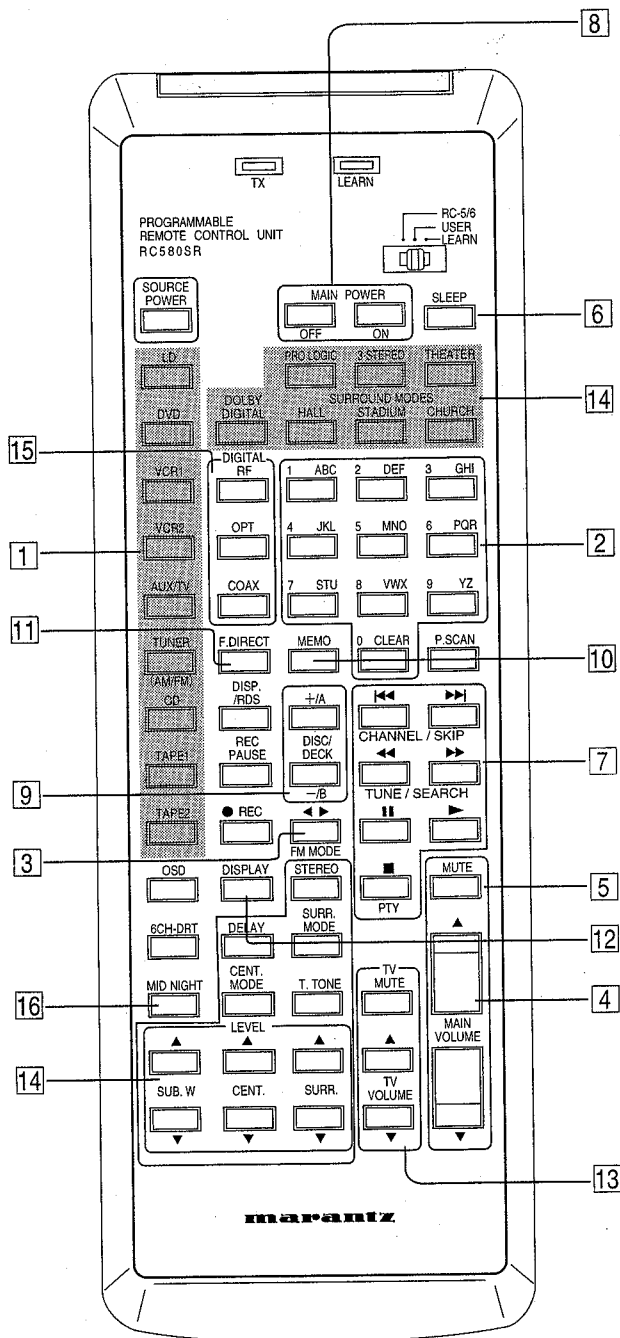
TEST TONE button
When the surround mode is PRO LOGIC, use this function to adjust the volume of each speaker. When this button is pressed, pink noise is output from each speaker in sequence.



DELAY button
Use this button to set the delay time of the surround channel.

REMOTE CONTROL OPERATION

(Remote control is applicable to components that use the RC-5 remote control cord language.)
(for SR580)



1 SOURCE SELECTION Button

Pressing one of these button selects the program source.
Press the button again to execute.

2 Numeric Buttons 0 to 9

In TUNER operation, these buttons are used to recall the Preset Number.
In CD operation, these buttons are used to recall a track number.
In TV operation, these buttons are used to select the TV channel.

3 MONO/ST Button (FM MONO/STEREO)

Functions as the same as the MODE button in the receiver.

4 VOLUME ▲ / ▼ Button

These buttons vary the listening volume. Press the ▲ button to increase it and the ▼ button to decrease it.

5 MUTE Button

Pressing this button immediately decreases the sound level (The mute LED will trickery). To restore the sound, press this button again.

6 SLEEP Button

Press to set the sleep timer.

7 Control Button

PLAY (▶), STOP (■), PAUSE (⏸), FF (▶▶), REW (◀◀).

These buttons are used when operating the CD player, LD player, TAPE deck, VCR, etc.

The functions of these buttons are dependent on the function button selected.

8 POWER Button

Press this button to turn ON/OFF (standby) the receiver.

9 DECK A/B Button

When this button is pressed, DECK A or B can be operated.

10 TXT Button

This button is used to view the teletext broadcast with TV stations.
For details, read the owner's manual of your TV set.

11 FR. DIRECT Button

When this button is pressed while the tuner source is being selected, the desired station can be selected by directly composing its frequency using numeric buttons 0 to 9.

12 DISPLAY Button

The function of this button is dependent on the function button selected, as described below.

When CD is selected:

Time (used to switch the displayed time between elapsed time and remaining time).

When DCC is selected:

Text (with DCC, used to display character information).

When TUNER is selected:

Text (invalid).

When AUX/TV is selected:

OSD (used to control the on-screen display of TV).

When a VCR is selected:

Slow (used for slow playback of videotape).

* For details, refer to the instruction manuals of the components used in your system.

13 TV-VOL Button

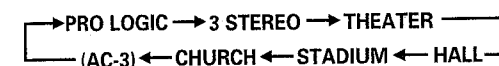
Adjust the TVs' Volume.

14 Surround selector

Surround control button

This button selects the surround modes.

SURR. MODE button



CENTER mode select button

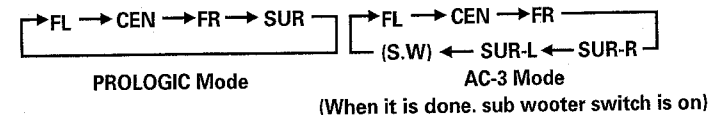
This button can be used only when the surround mode is DOLBY, and is used to select the center mode. (NORMAL, WIDE, PHANTOM)

LEVEL UP ▲ / DOWN ▼ buttons

They can be used only when the surround mode can are used to increase or decrease the center and (or) rear channel volume.

TEST TONE button

When the surround mode is AC-3 PRO LOGIC, use this function to adjust the volume of each speaker. When this button is pressed, pink noise is output from each speaker in sequence.



DELAY button

Use this button to set the delay time of the surround channel.

15 DIGITAL SELECT. button (SR580 only)

This button to swich the digital signal.

16 MID NIGHT button (SR580 only)

The source with large dynamic range is compressed.

(SR580 Only)

LEARNING METHOD

This remote control unit (RC580SR) can learn, or program in itself, the remote control code of any function preset under any button of the remote control unit of any system component, except for the **MAIN POWER** switch of the SR580. The functions of the components that can be controlled through the D-BUS (RC-5) need not be learned, but the functions of other components must be learned before they can be controlled from the RC580SR remote control unit. To let the RC580SR learn the remote control code of a function of a component, follow the learning procedure described below.

1. Set the mode switch to **LEARN**.
2. Select the component with the codes to be learned, by pressing one of the input selector buttons.
For example, when the CD button is pressed, most of the buttons on the remote handset get ready to learn the CD control codes.
3. On the RC580SR, press the button corresponding to the function to be learned. For example, if the function to be learned is playback, press the **PLAY (▶)** button on the remote control unit. The Learn indicator will light up.
4. Place the remote control unit of the component with the function to be learned at a distance of about 20 cm (8 inches) from the RC580SR, so that the head (transmitting side) of the former remote control unit points the head of the RC580SR.
5. On the remote control unit of the component, press and hold the button of the function to be learned, until the learning indicator of the RC580SR starts to blink then goes off. The learning operation is complete when the indicator is extinguished.
6. Set the mode switch to **USER**.
7. Let the RC580SR learn other codes by repeating the steps above for each code.

Note:

When the system mode switch is in the **USER** position, the buttons which have not learned any function output the D-BUS (RC-5) codes when they are pressed. In the RC-5 (D-BUS) position, all buttons output the D-BUS (RC-5) codes.

RECALLING THE PRESET FUNCTION

Even after a button has learned the remote control code of a function, its originally preset, D-BUS (RC-5) code can be recalled any time by following the procedure below.

1. Set the mode switch to **LEARN**.
2. Press the **MAIN POWER OFF** button and the button which has learned a function simultaneously.
3. Set the mode switch to **USER**.

Learning button indications

Although the learning buttons can be used to operate various components, the indications printed above the buttons are Marantz D-BUS (RC-5) preset code indications. To make it easier to remember which buttons perform which operations, therefore, we recommend that you program operations into buttons having the same or similar indications.

There are some situations where programming is not possible.

In the following instances, both the TX and LEARN LEDs blink to indicate that programming cannot be carried out.

1. When the remote control unit's memory is full.
2. When you attempt to program a command from a remote control unit using a different signal transmission format.

CLEARING ALL OF THE LEARNED CODES

Use the following procedure to reset all of the buttons which have learned remote control codes and make them possible to output RC-5 preset codes.

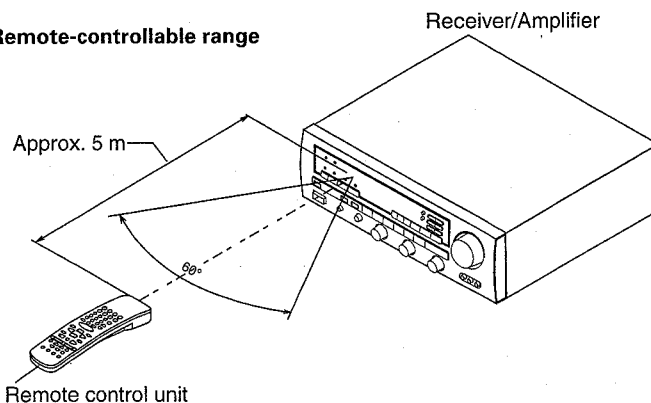
1. Set the mode switch to **LEARN**.
2. Hold down the main **POWER ON** and **OFF** buttons simultaneously for more than 3 seconds.
3. Set the mode switch to **USER**.

Operation of Remote Control (for SR480/PM488AV)

1. Remote control

The distance between the transmitter of the remote control unit and the IR SENSOR of the AV Surround Stereo Receiver should be less than about 5 metres. If the transmitter is pointed to a direction other than the IR SENSOR or if there is an obstacle between them, remote control may not be possible.

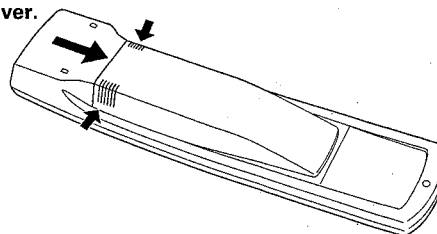
Remote-controllable range



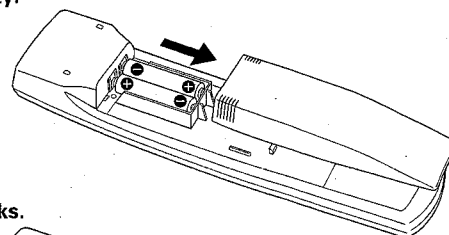
2. Loading batteries

The life of the batteries used with the remote control unit is about one year with normal use.

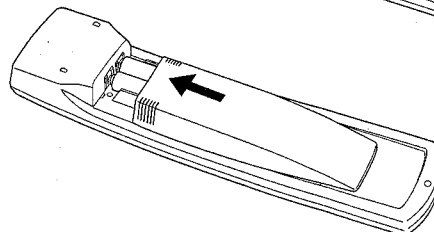
① Remove the back cover.



② Insert batteries (AAA type) with correct (+) and (-) polarity.



③ Close until it clicks.

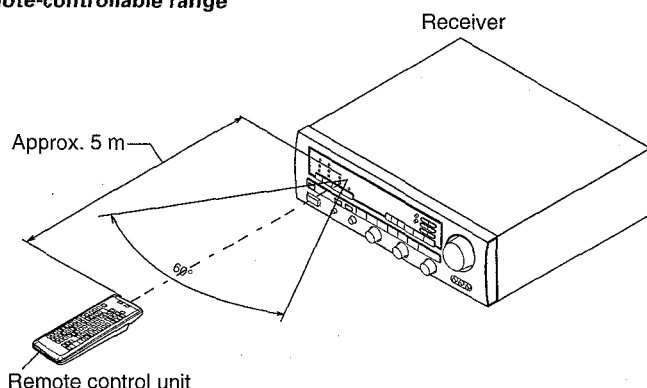


Operation of Remote Control (for SR580.)

1. Remote control

The distance between the transmitter of the remote control unit and the IR SENSOR of the AV Surround Stereo Receiver should be less than about 5 metres. If the transmitter is pointed to a direction other than the IR SENSOR or if there is an obstacle between them, remote control may not be possible.

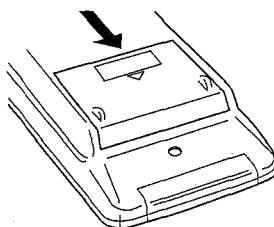
Remote-controllable range



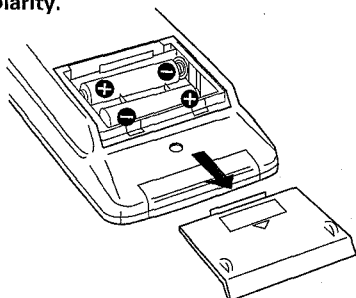
2. Loading batteries

The life of the batteries used with the remote control unit is about one year with normal use.

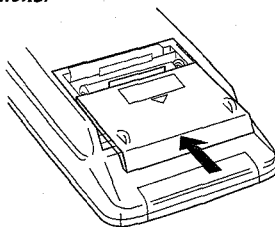
① Remove the back cover.



② Insert batteries (AAA type) with correct (+) and (-) polarity.



③ Close until it clicks.



CARE AND MAINTENANCE

This section describes the care and maintenance tasks that must be performed to optimize the operation of your Marantz equipment.

CLEANING OF EQUIPMENT EXTERNAL SURFACES

The exterior finish of your unit will last indefinitely with proper care and cleaning. Never use scouring pads, steel wool, scouring powders or harsh chemical agents (e.g., lye solution), alcohol, thinners, benzene, insecticide or other volatile substances as these will mar the finish of the equipment. Likewise, never use cloths containing chemical substances. If the equipment gets dirty, wipe the external surfaces with a soft, lint-free cloth.

If the equipment becomes heavily soiled:

- dilute some washing up liquid in water, in a ratio of one part detergent to six parts water;
- dip a soft, lint free cloth in the solution and wring the cloth out until it is damp;
- wipe the equipment with the damp cloth
- dry the equipment by wiping it with a dry cloth.

REPAIRS

Only the most competent and qualified service technicians should be allowed to service your unit. Marantz and its factory trained warranty station personnel have the knowledge and special equipment needed for the repair and calibration of this precision instrument.

In the event of difficulty, call the proper toll-free telephone number listed on the face of the warranty to obtain the name and address of the Marantz Authorized Service Center nearest you. In many cases, the dealer where you purchased your Marantz unit may be equipped to provide service. Please include the model, serial number of your unit together with a copy of your purchase receipt and a full description of what you feel is abnormal in its behaviour.

THE PROTECTION CIRCUIT

If the protection circuit does work, the unit will enter to standby mode and do not only working for 3 seconds.

GENERAL MALFUNCTION

If the equipment malfunctions, this may be because an electrostatic discharge or AC line interference has corrupted the information in the equipment memory circuits. Therefore:

- power switch turns OFF
- after waiting at least three minutes, power switch turns ON
- re-attempt to operate the equipment

Memory backup

- In case a power outage occurs or the power cord is accidentally unplugged, the unit is equipped with a backup function to prevent memory data such as the preset memory from being erased.
- The memory functions are backed up for up to about 2 week.

TROUBLESHOOTING GUIDE

If your receiver / amplifier should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or our service organization.

PROBLEM	POSSIBLE CAUSE	REMEDY
No power	<ul style="list-style-type: none"> The AC input cord is disconnected. Poor connection at AC wall outlet or the outlet is inactive. 	<ul style="list-style-type: none"> Connect cord securely. Check the outlet using lamp or other appliance.
The sound is shut off.	<ul style="list-style-type: none"> The speaker cables are shorted. 	<ul style="list-style-type: none"> Check the speaker connections.
No sound from the speakers.	<ul style="list-style-type: none"> The speaker cables are disconnected. The master volume is adjusted too low. The surround volume is adjusted too low. The center volume is adjusted too low. The Mute button is pressed to ON. The SPEAKER switches are not pressed correctly. Incorrect selection of program source. Format of surround is different. Incorrect connections between the components. 	<ul style="list-style-type: none"> Check the speaker connections. Adjust the master volume and center, surr.vol. Press the MUTE button to cancel the muting effect. Press the SPEAKER switches to ON correctly. Select the desired program source correctly. DISK of AC-3 format is used. Make connections correctly.
Sound is only heard from one of front speakers.	<ul style="list-style-type: none"> The BALANCE control is set to one end. One of the connection cords is disconnected. 	<ul style="list-style-type: none"> Adjust the BALANCE control. Connect the right and left connection cords securely.
No sound from the rear speakers.	<ul style="list-style-type: none"> The sound field mode is not selected correctly or is set to off. The master volume and rear level are adjusted too low. Monaural source is used, or source without surround information. 	<ul style="list-style-type: none"> Select the desired sound field mode correctly. Adjust the master volume and rear level. Change the playback source to the stereo or surround source.
No sound from the center speaker.	<ul style="list-style-type: none"> The DOLBY DIGITAL (AC-3), DOLBY PRO LOGIC, DOLBY PRO LOGIC THEATER or DOLBY 3 STEREO mode is not selected. The center mode is set to the PHANTOM mode. The master volume and center level are adjusted too low. 	<ul style="list-style-type: none"> Select the desired mode. Set to the NORMAL or WIDE mode. Adjust the master volume and center level.
The remote control unit does not operate.	<ul style="list-style-type: none"> Batteries are not loaded or exhausted. The remote sensor is obstructed. 	<ul style="list-style-type: none"> Replace the with new batteries. Remove the obstacle from the remote sensor.
Not receiving the stations. (RECIEVER ONLY)	<ul style="list-style-type: none"> No antenna is connected. The desired station frequency is not tuned in. 	<ul style="list-style-type: none"> Connect an antenna. Tune in the desired station frequency.
Not receiving the preset stations. (RECIEVER ONLY)	<ul style="list-style-type: none"> An incorrect station frequency has been memorized. The memorized stations are cleared. 	<ul style="list-style-type: none"> Memorized the correct station frequency. Memorize the stations again.
Poor FM reception. (RECIEVER ONLY)	<ul style="list-style-type: none"> No antenna is connected. The antenna is not positioned for the best reception. 	<ul style="list-style-type: none"> Connect an antenna. Change the position of the antenna. Route as high as possible.
Continuous hissing noise during FM reception, especially when a stereo broadcast is received. (RECIEVER ONLY)	<ul style="list-style-type: none"> Weak signal. 	<ul style="list-style-type: none"> Change the position of the antenna. In areas remote from the transmitter, a 5 to 8 element antenna designed exclusively for FM is suggested.
Continuous or intermittent hissing noise during AM reception, especially at night. A hum can be heard during AM reception. (RECIEVER ONLY)	<ul style="list-style-type: none"> Noise is caused by motors, fluorescent lamps or lightning, etc. The AC input cord may be too close to the AM loop antenna or the antenna wire. 	<ul style="list-style-type: none"> Keep the receiver away from noise sources. Install an outdoor AM antenna. Position the AC input cord away from the antenna wire and the AM loop antenna. Adjust the position of the AM loop antenna.

AVANT-PROPOS

Prière de lire ce chapitre avant de brancher l'appareil sur le secteur.

AVERTISSEMENT

- Ne pas exposer l'appareil à la pluie ou à l'humidité.
- Garder le coffret de l'appareil fermé.
- Ne rien insérer par les trous d'aération de l'appareil.
- Ne pas manipuler le cordon d'alimentation avec des mains mouillées.

REGLAGE DE L'ALIMENTATION SECTEUR DE L'APPAREIL

Cet appareil Marantz a été conçu pour respecter les exigences de votre région en matière d'alimentation secteur et de sécurité.

Sur le panneau arrière du modèle Version «Overseas» (Etranger) est implanté un sélecteur de tension. Prenez soin de régler ce sélecteur en fonction de la tension secteur, utilisée dans votre région, avant de mettre l'appareil en service.

COPYRIGHT

L'enregistrement et la lecture de certaines informations sonores nécessitent une autorisation. Pour de plus amples renseignements, consultez :

- La loi de 1956 sur les Copyright.
- La loi de 1972 sur les interprétations dramatiques et musicales.
- Les décrets et règlements ultérieurs qui s'y rapportent.

INTRODUCTION

Merci pour avoir choisi l'ampli-tuner A/V stéréo Surround Marantz pour votre chaîne audio/vidéo.

Cet ampli-sintoniseur est doté de nombreuses fonctions conçues pour améliorer les performances de vos sources audio préférées.

Veuillez lire attentivement ces instructions. Nous vous recommandons de lire ce manuel en entier avant d'essayer de connecter ou de faire fonctionner l'appareil.

Après avoir pris connaissance du contenu de ce manuel, nous vous suggérons d'effectuer toutes les connexions de la chaîne avant de faire fonctionner l'appareil.

Se référer aux schémas qui se trouvent à la fin de ce manuel. Les numéros des schémas renvoient aux numéros se trouvant dans le texte. Toutes les références aux connexions et commandes imprimées en caractères **GRAS** sont telles qu'elles apparaissent sur l'appareil.

INSTALLATION

Souvenez-vous des points importants suivants lors de l'installation de l'ampli-tuner.

- Ne pas exposer l'appareil à la pluie ni à l'humidité car elles pourraient l'endommager.
- Tous les appareils de ce type produisent de la chaleur pendant leur fonctionnement et celle-ci doit pouvoir se dissiper librement. Ne pas obstruer les ouvertures d'aération et prévoir un espace suffisant pour l'aération à l'arrière, sur les côtés et au-dessus de l'appareil.
- Eviter que l'appareil ne soit soumis à trop de chaleur. Ne jamais le placer directement aux rayons du soleil ou près d'une source de chaleur.

PRECAUTIONS

Il convient de prendre les précautions suivantes pendant le fonctionnement de l'appareil.

PRECAUTIONS GENERALES

Lors de l'installation de l'appareil, vérifier :

- que les orifices d'aération ne sont pas obstrués.
- que l'air peut circuler librement autour de l'appareil.
- que l'appareil est placé sur une surface non sujette aux vibrations.
- qu'il n'est pas exposé à des sources de chaleur excessive, au froid, à l'humidité et à la poussière.
- qu'il n'est pas exposé aux rayons directs du soleil.
- qu'il n'est pas exposé aux décharges électrostatiques.
- qu'il est horizontal.

En outre, ne jamais placer d'objets lourds sur l'appareil.

Si un objet ou de l'eau pénètre à l'intérieur de l'appareil, prendre contact avec le distributeur ou le centre de service après-vente le plus proche.

Toujours débrancher l'appareil en tirant sur la fiche et non pas sur le cordon secteur.

Il est recommandé de débrancher l'appareil de la prise secteur lorsque son fonctionnement est interrompu pendant une longue période de temps ou en cas d'orage.

CARACTERISTIQUES DU SR580

- Muni de 7 entrées audio et de 5 entrées vidéo.
- Avant 70 W x 2 (8 ohms), centre 50 W (8 ohms), environnement 50 W x 2 (8 ohms).
- Mémoire acoustique dotée de 7 présélections permettant de mémoriser les champs d'environnement désirés.
- Décodeur environnement doté de fonction de commande de retard numérique.
- Dolby Pro-Logic Surround avec fonction automatique de commande de balance d'entrée.
- Dolby DIGITAL (AC-3)
- Mémoire de présélections pouvant stocker 30 émetteurs.
- Arrêt programmable pouvant atteindre 90 minutes.

CARACTERISTIQUES DU SR480/ PM488AV

- Muni de 7 entrées audio et de 5 entrées vidéo.
- Avant 70 W x 2 (8 ohms), centre 50 W (8 ohms), environnement 50 W x 2 (8 ohms).
- Mémoire acoustique dotée de 7 présélections permettant de mémoriser les champs d'environnement désirés.
- Décodeur environnement doté de fonction de commande de retard numérique.
- Mémoire de présélections pouvant stocker 30 émetteurs. (SR480)
- Arrêt programmable pouvant atteindre 90 minutes.
- Fonction d'entrée directe 6 canaux.

Pour assurer une bonne ventilation de l'amplificateur, ne pas le monter sur rack ni le placer à l'intérieur d'une bibliothèque. Toujours observer les précautions suivantes :

- Ne jamais introduire d'objets dans l'espace situé au-dessous de l'amplificateur.
- Veiller à ne pas obstruer les orifices de ventilation au-dessus de l'amplificateur.
- Laisser la zone au-dessus de l'amplificateur dégagée sur environ un mètre.
- Laisser environ 20 cm d'espace libre de chaque côté de l'amplificateur.

TECHNICAL SPECIFICATIONS SR480/SR580/PM488AV

SR480/SR580

PM488AV

FM Tuner Section

Frequency Range	87.5 – 108.0 MHz
Usable Sensitivity	IHF 0.9 μ V/10.8 dBf
Signal to Noise Ratio	Mono/Stereo 80/73 dB
Distortion	Mono/Stereo 0.2/0.5 %
Stereo Separation	1 kHz 45 dB
A.C.S.	\pm 400 kHz 55 dB
Image Rejection	98 MHz 50 dB
Tuner Output Level	1 kHz, \pm 75 kHz Dev 500 mV

AM Tuner Section

Frequency Range	522 –1611 kHz
Usable Sensitivity	Loop 500 μ V/m
Signal to Noise Ratio	50 dB
Distortion	1 kHz, 30 % Mod. 0.5 %
Selectivity	\pm 10 kHz 25 dB

Audio Section

Rated Power (5ch drive)		
Front	20 Hz–20 kHz 8 ohms 50 W/Ch	20 Hz–20 kHz 8 ohms 50 W/Ch
Center	1 kHz 8 ohms 50 W	1 kHz 8 ohms 50 W
Surround	1 kHz 8 ohms 50 W/Ch	1 kHz 8 ohms 50 W/Ch
THD Front	20 Hz–20 kHz 8 ohms 0.09 %	20 Hz–20 kHz 8 ohms 0.09 %
Input Sensitivity/Impedance		
Linear	200 mV/47 k ohm	200 mV/47 k ohm
Signal to Noise Ratio (IHF A)		
Linear	92 dB	92 dB

Video Section

Input/Output Level/Impedance	1.0 V _{p-p} /75 ohms	1.0 V _{p-p} /75 ohms
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Others

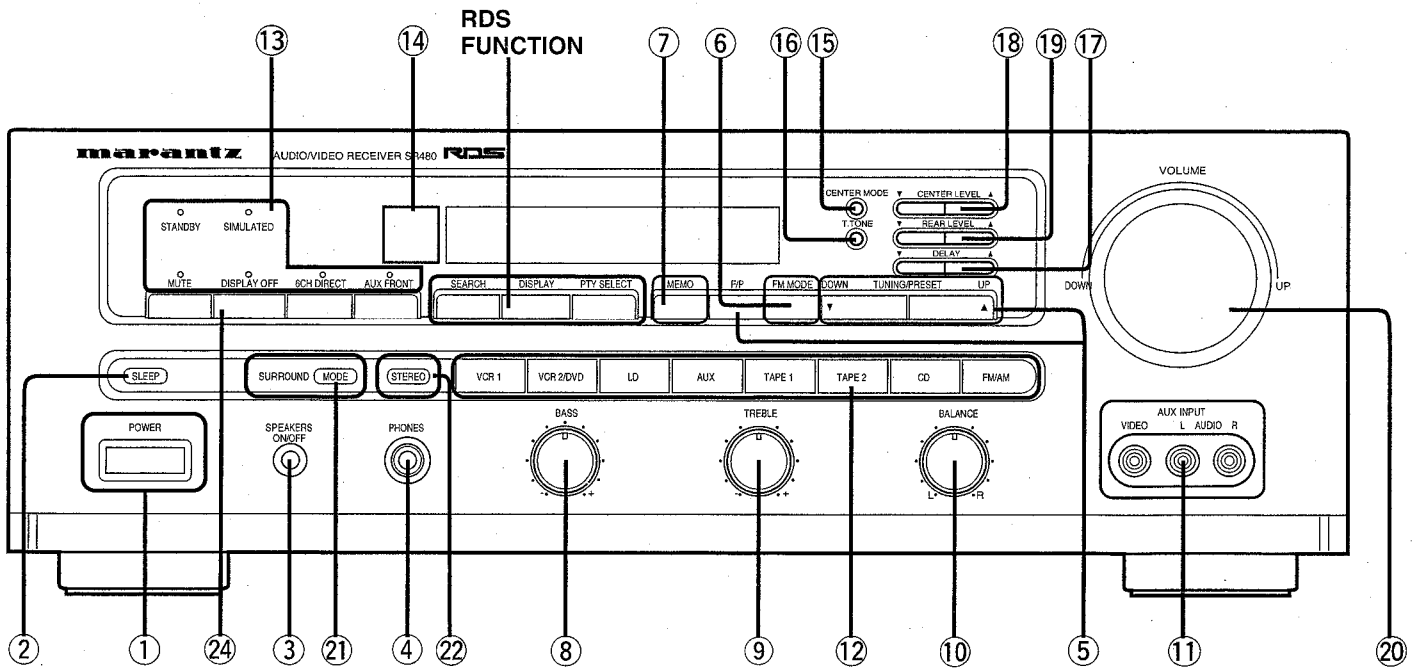
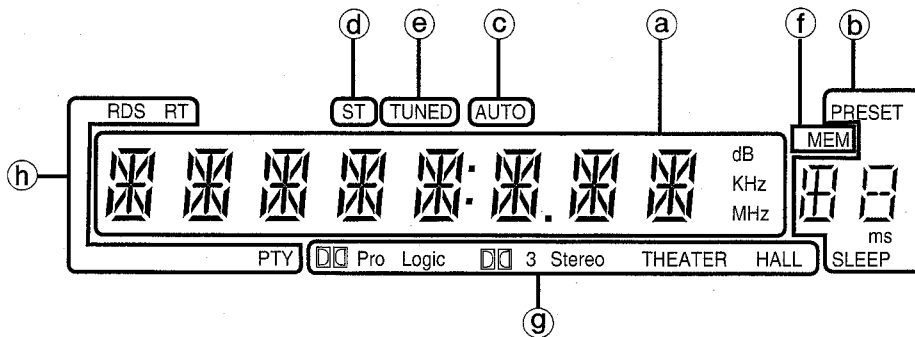
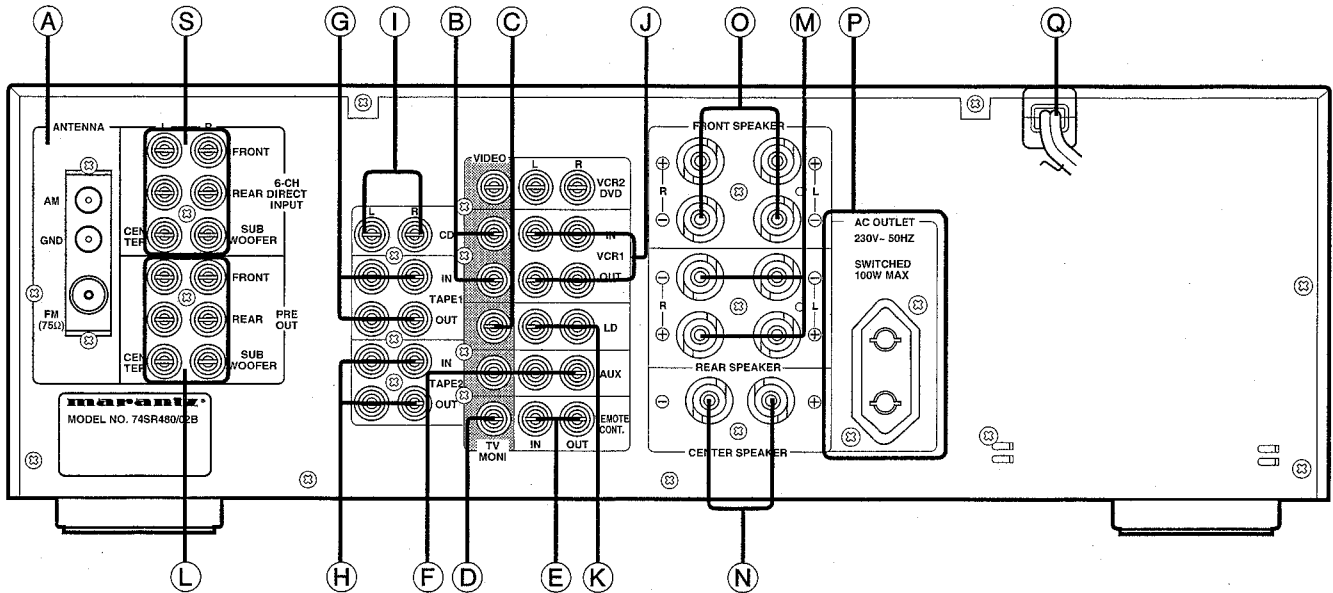
Power Supply	/01B version AC 115 V/230V 50/60 Hz	
.....	/02B version AC230 V 50 Hz	115 / 230V, 50 / 60Hz
Power Consumption	280 W	280W

Dimensions (MAX)

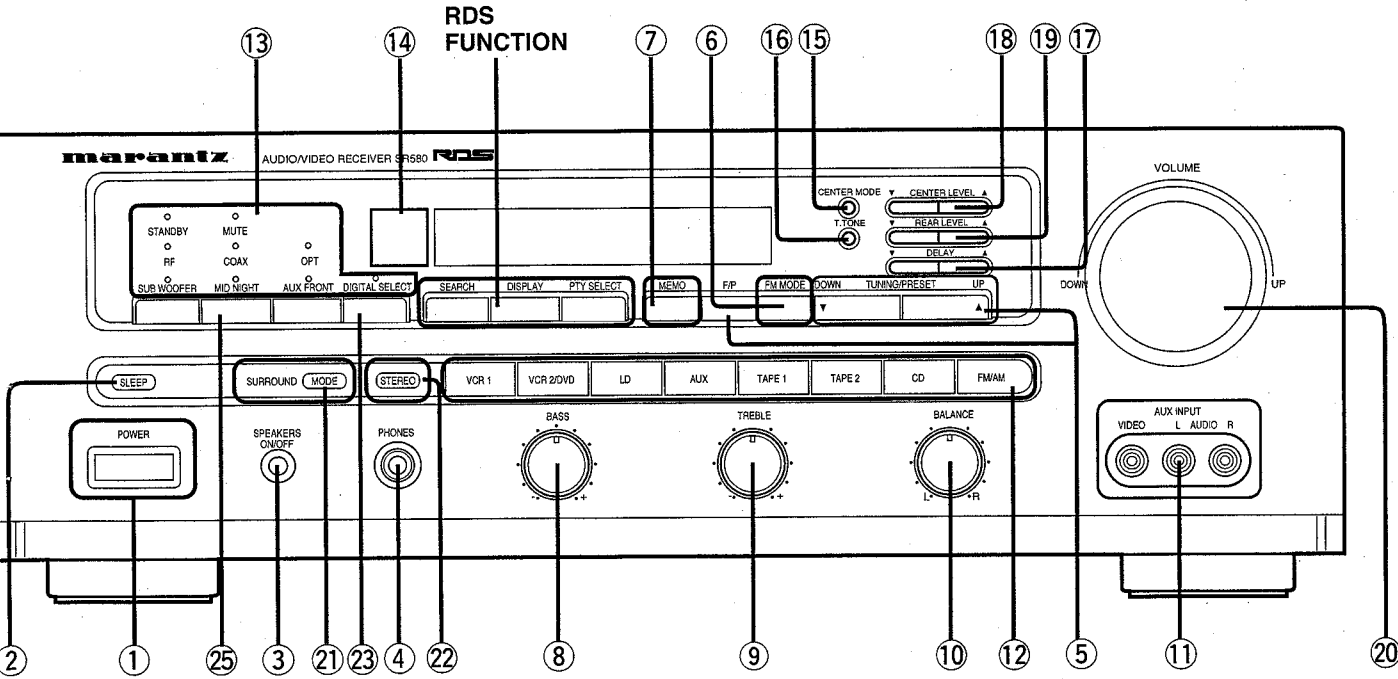
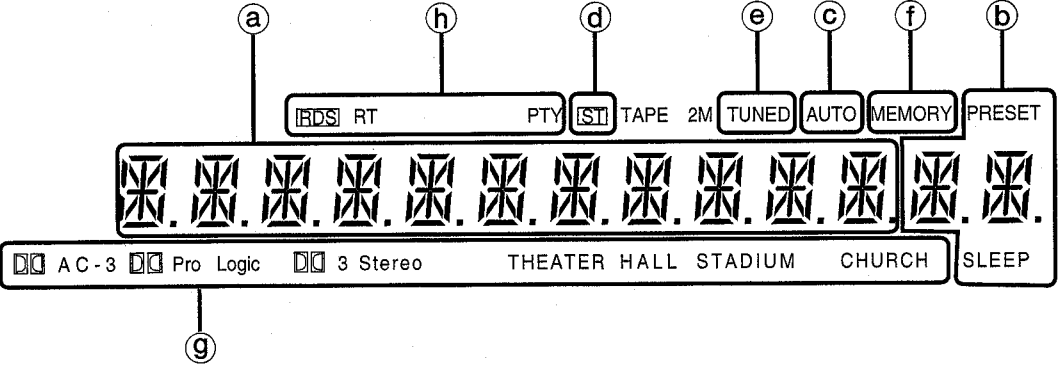
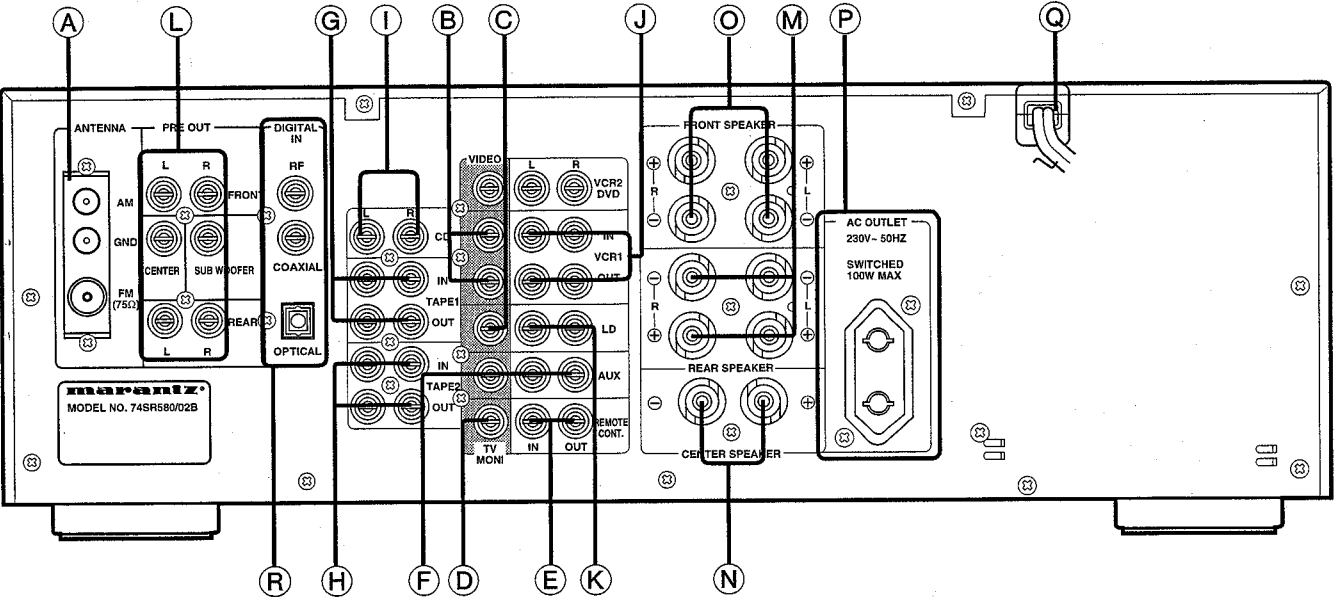
Width	17-1/4 inches (440 mm)	17-1/4 inches (440 mm)
Height	5-1/2 inches (140 mm)	5-1/2 inches (140 mm)
Depth	15 inches (380 mm)	15 inches (380 mm)
Weight	31 lbs (14 kg)	31 lbs (14 kg)

Specifications subject to change without prior notice.

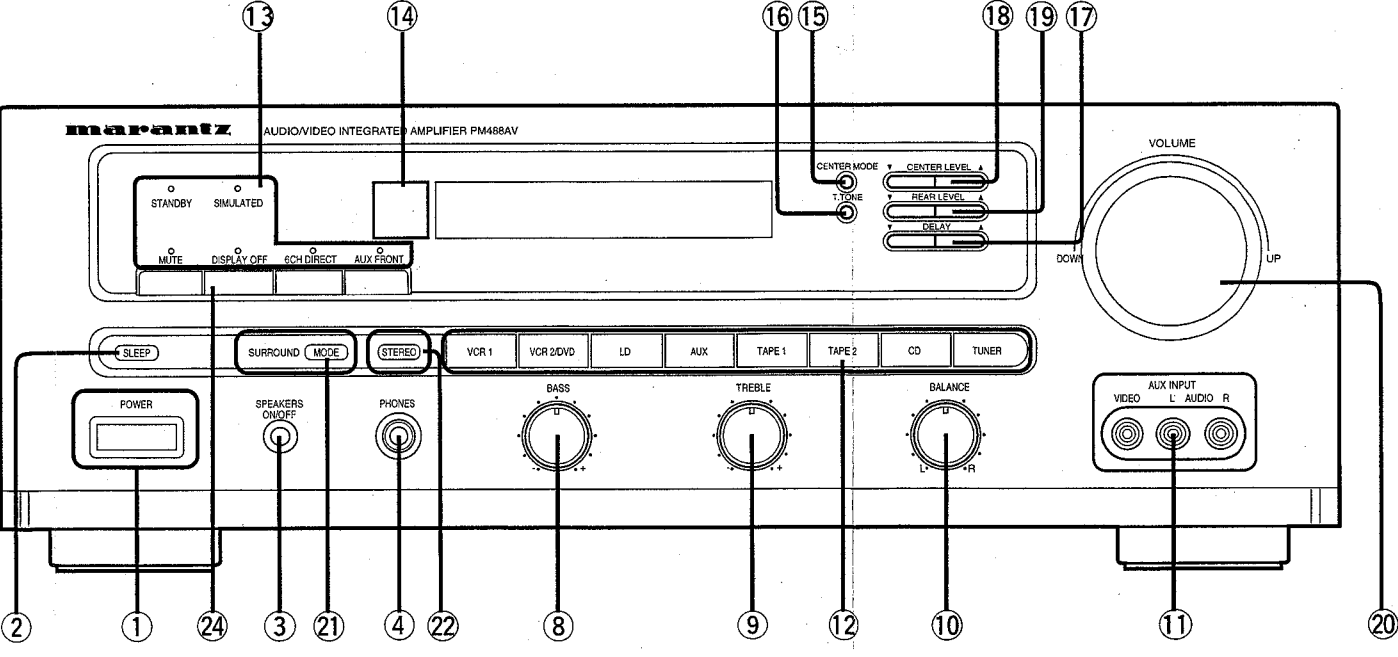
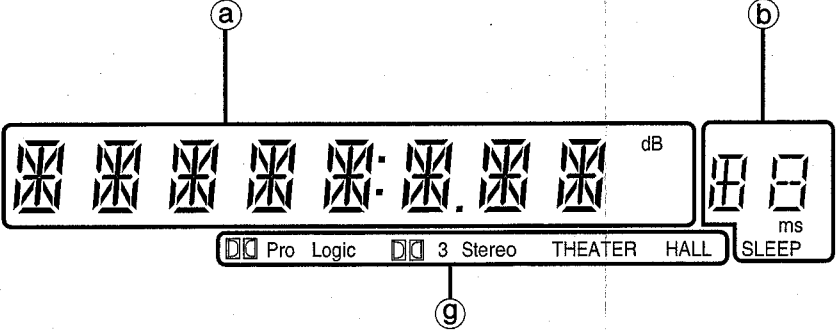
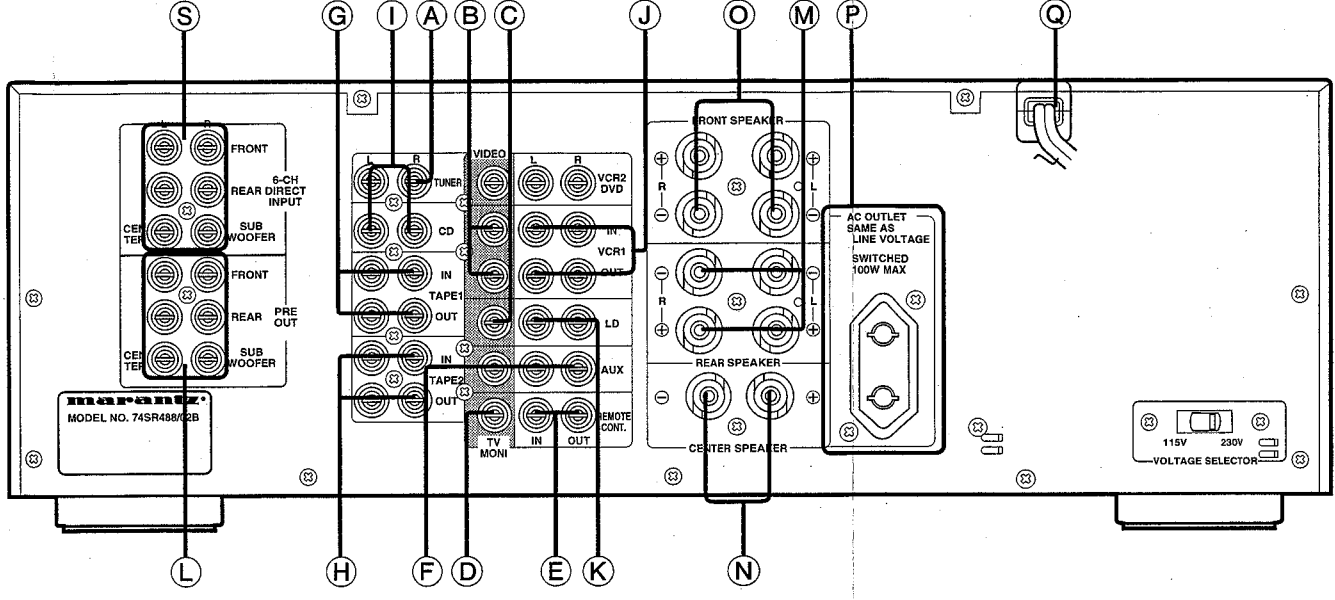
SR480



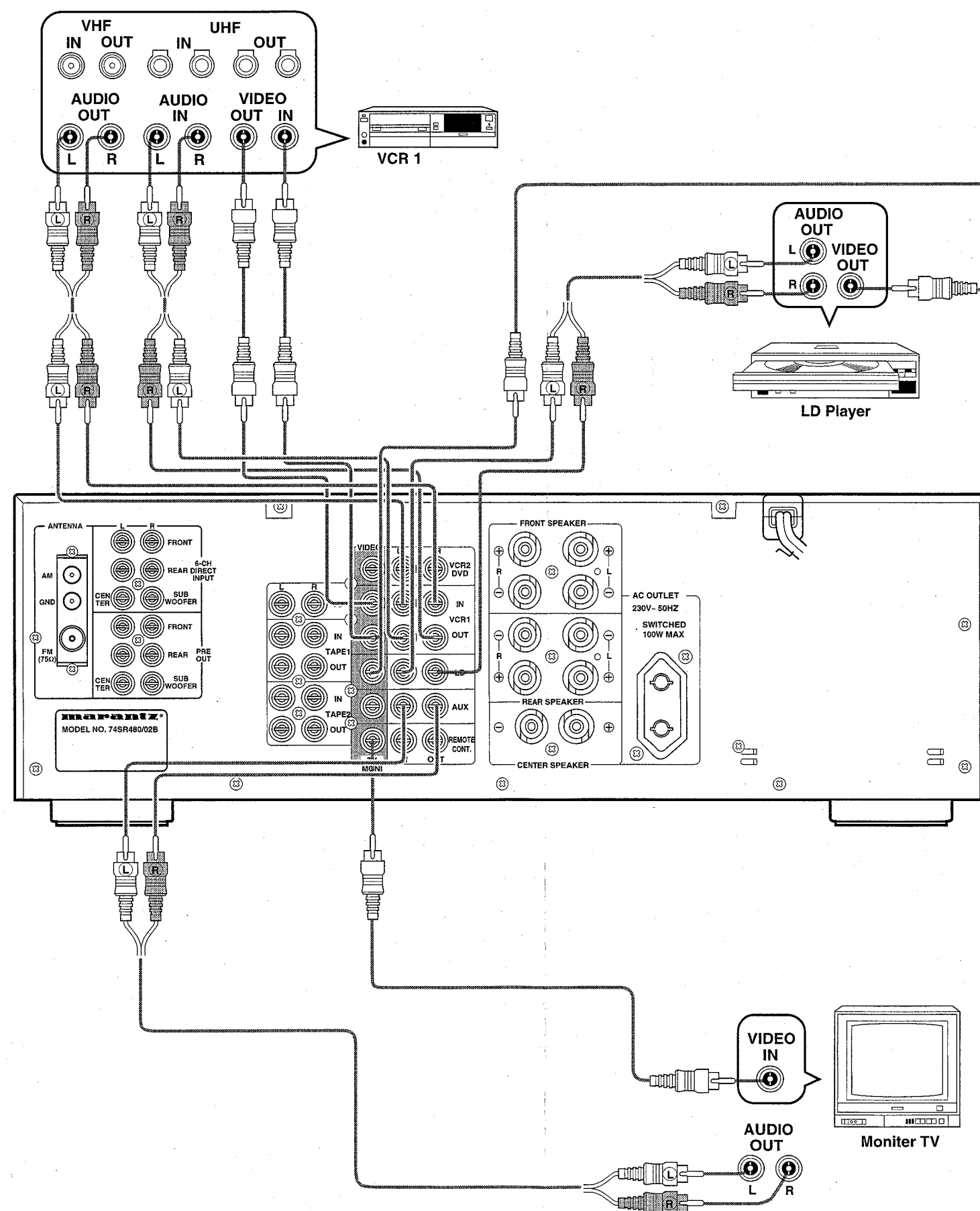
SR580



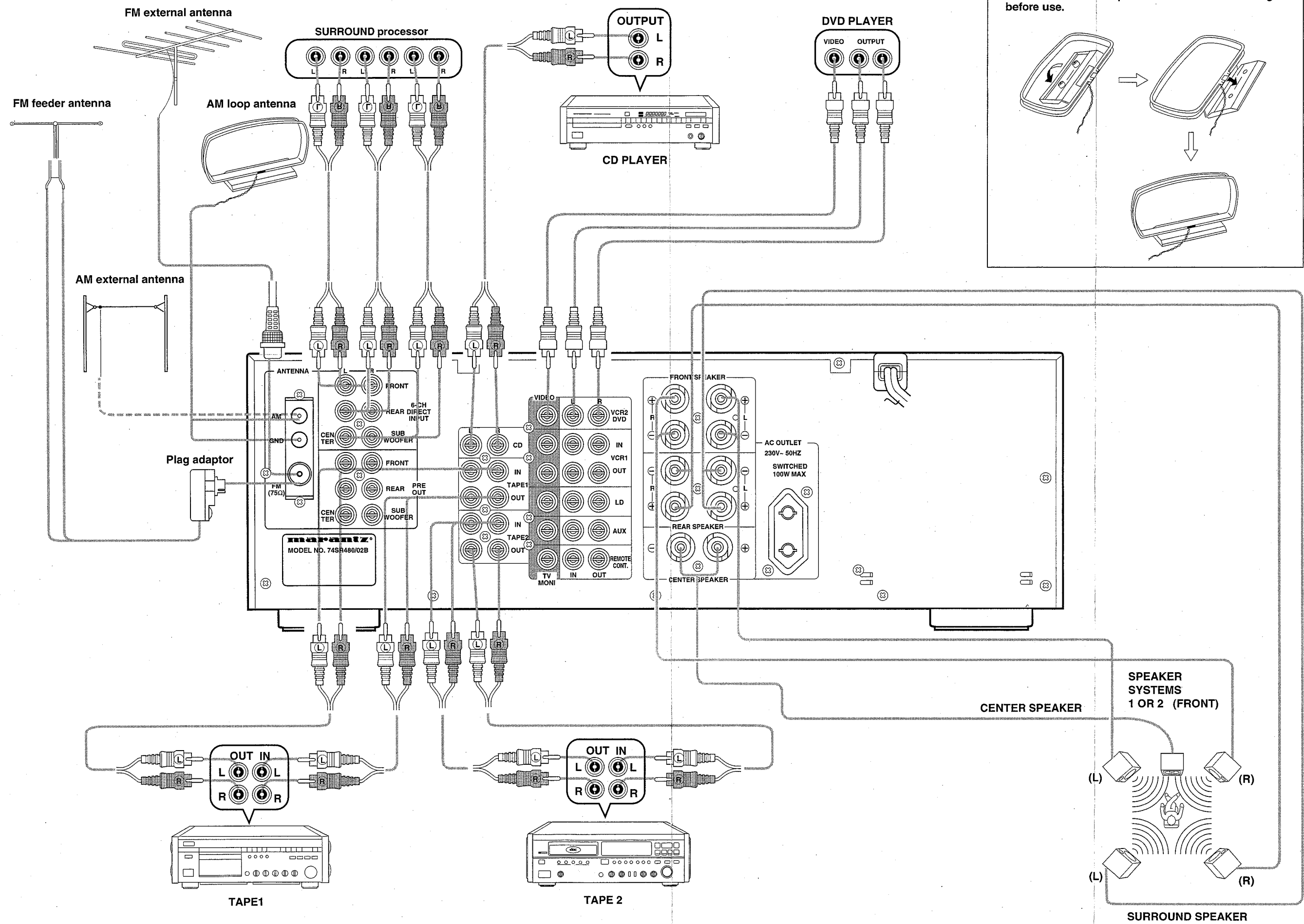
PM488AV



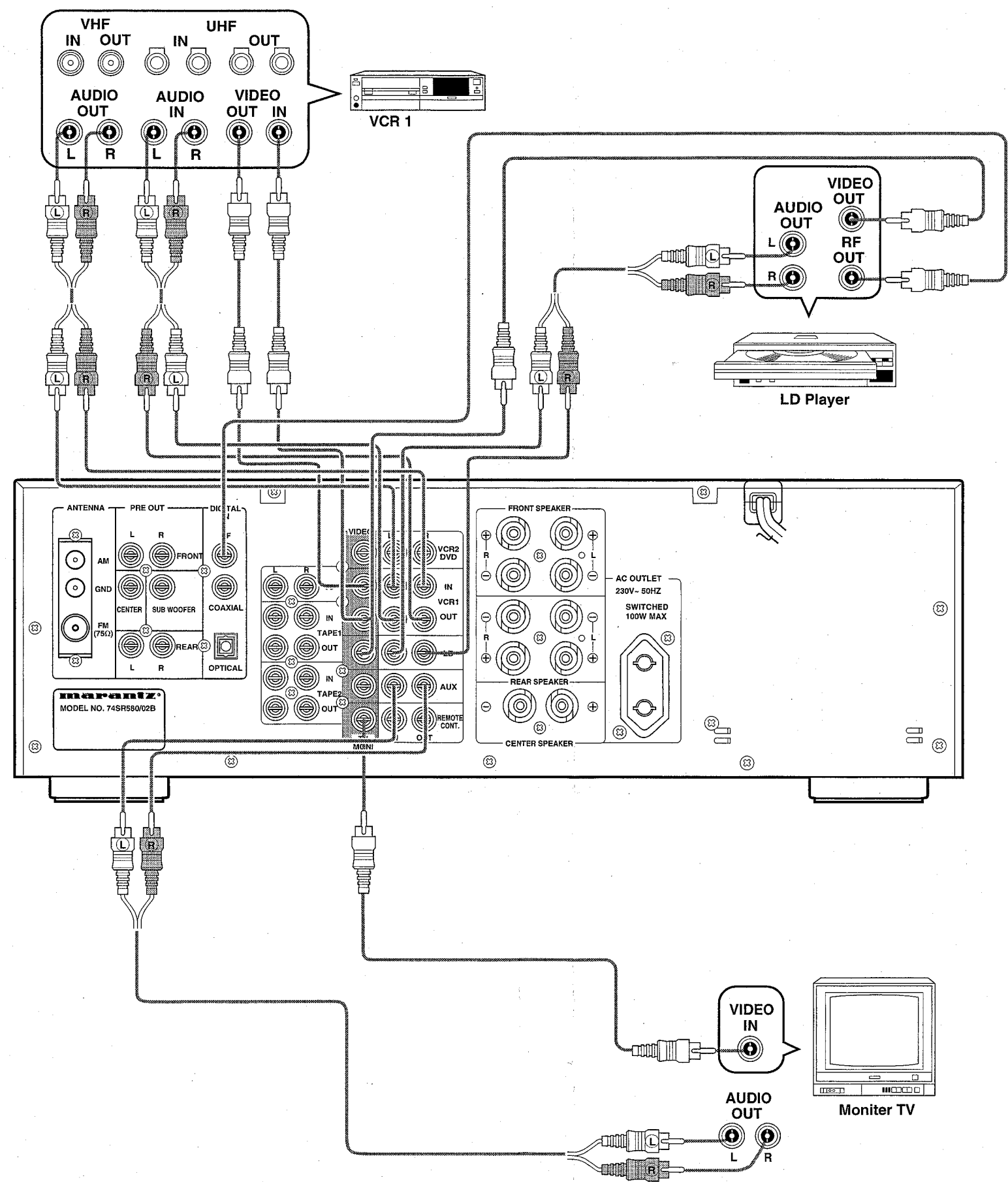
VIDEO SYSTEM CONNECTIONS (SR480)



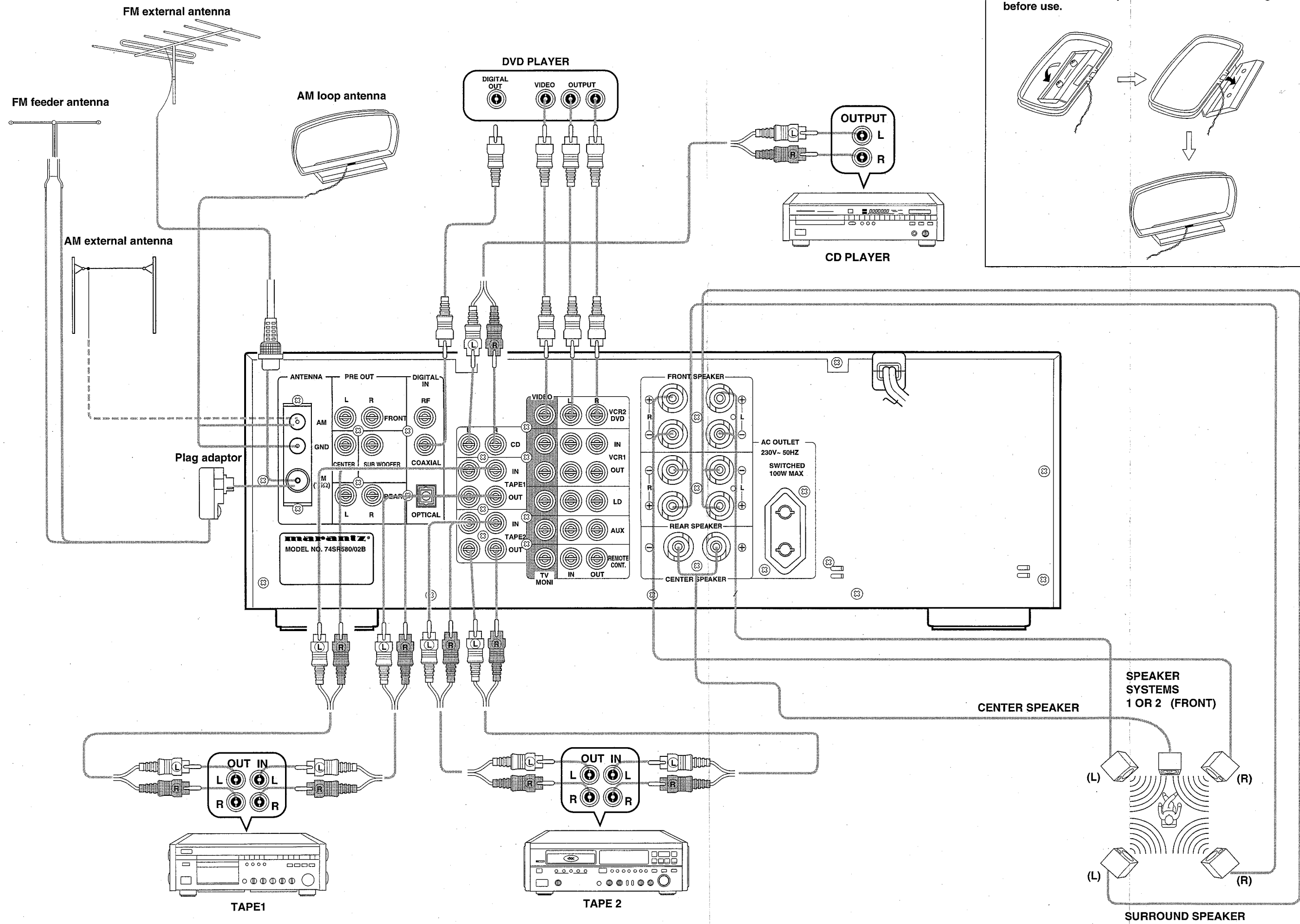
AUDIO SYSTEM CONNECTIONS (SR480)



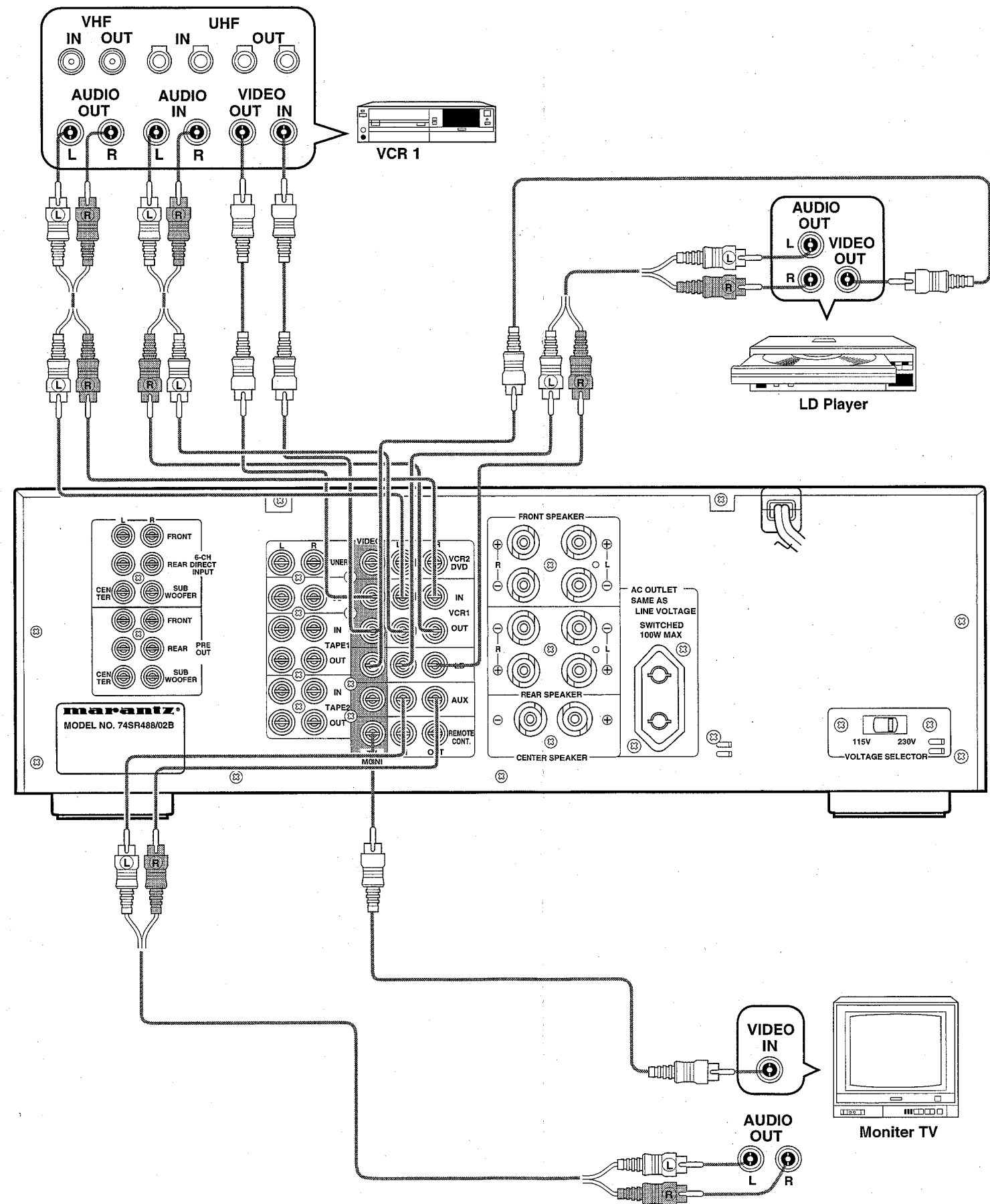
VIDEO SYSTEM CONNECTIONS (SR580)



UDIO SYSTEM CONNECTIONS (SR580)



VIDEO SYSTEM CONNECTIONS (PM488AV)



AUDIO SYSTEM CONNECTIONS (PM488AV)

